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COAST GUARD RESEARCH AND DEVELOPMENT CENTER GROTON CT F/G 13/12
USCG R AND D CENTER RECREATIONAL BOATING SAFETY TEST BOAT DOCUMENT--ETC(U)
NOV 78 R SECREST, R YOUNG, R CASTRONOVA

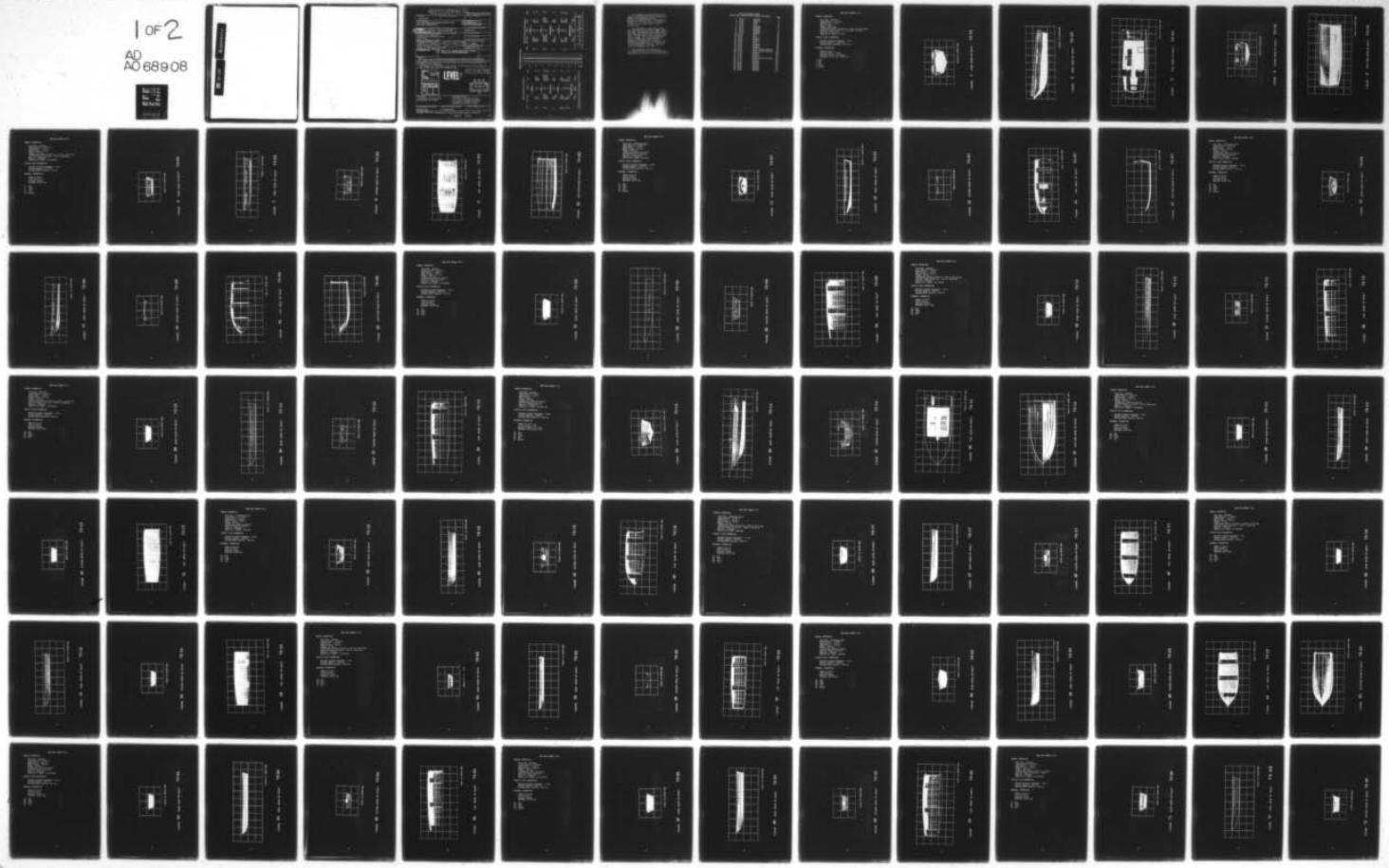
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CGR/DC-3/79

USCG-D-11-79

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1 OF 2
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Technical Report Documentation Page

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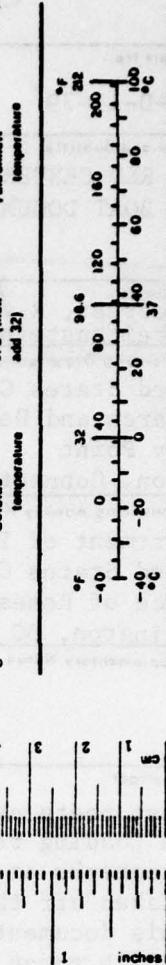
408 730

METRIC CONVERSION FACTORS

Approximate Conversions to Metric Measures

Symbol	When You Know	Multiply by	To Find	Symbol	When You Know	Multiply by	To Find	Symbol	When You Know	Multiply by	To Find
LENGTH											
in	inches	1.0	centimeters	cm	centimeters	0.04	inches	in	inches	1.0	centimeters
ft	feet	30	centimeters	cm	centimeters	0.4	inches	in	inches	1.0	centimeters
yd	yards	0.9	centimeters	cm	centimeters	2.3	feet	ft	feet	1.0	centimeters
mi	miles	1.6	centimeters	cm	centimeters	1.1	feet	ft	feet	1.0	centimeters
			kilometers	km	kilometers	0.6	miles	mi	miles	1.0	centimeters
AREA											
in ²	square inches	6.5	square centimeters	cm ²	square centimeters	0.16	square inches	in ²	square inches	1.0	square centimeters
ft ²	square feet	0.09	square meters	m ²	square meters	1.2	square yards	yd ²	square yards	1.0	square meters
yd ²	square yards	0.8	square meters	m ²	square meters	0.4	square kilometers	km ²	square kilometers	1.0	square meters
mi ²	square miles	2.6	square kilometers	km ²	square kilometers	2.5	hectares (10,000 m ²)	ha	hectares	1.0	square kilometers
	acres	0.4	hectares	ha	hectares						
MASS (weight)											
oz	ounces	28	grams	g	grams	0.036	ounces	oz	ounces	1.0	grams
lb	pounds	0.45	kilograms	kg	kilograms	2.2	pounds	lb	pounds	1.0	kilograms
	short tons (2000 lb)	0.9	tonnes	t	tonnes	1.1	short tons	tn	short tons	1.0	tonnes
VOLUME											
ts	teaspoons	5	milliliters	ml	milliliters	0.03	fluid ounces	fl oz	fluid ounces	1.0	milliliters
tsbp	tablespoons	15	milliliters	ml	milliliters	2.1	pints	pt	pints	1.0	milliliters
fl oz	fluid ounces	30	milliliters	ml	milliliters	1.06	liters	lt	liters	1.0	milliliters
c	cups	0.24	liters	lt	liters	0.26	gallons	gal	gallons	1.0	liters
pt	pints	0.47	liters	lt	liters	3.5	cubic feet	ft ³	cubic feet	1.0	liters
qt	quarts	0.96	liters	lt	liters	1.3	cubic meters	m ³	cubic meters	1.0	liters
gal	gallons	3.8	liters	lt	liters						
ft ³	cubic feet	0.03	cubic meters	m ³	cubic meters						
yd ³	cubic yards	0.76	cubic meters	m ³	cubic meters						
TEMPERATURE (exact)											
°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C	Celsius temperature	9/5 (then add 32)	Fahrenheit temperature	°F	Fahrenheit temperature	1.8	Celsius temperature

* 1 in = 2.54 centimeters. For further metric conversion factors and metric equivalents and metric conversion factors, see NBS Mon. Publ. 786, Units of Weights and Measures, Price 92-75, SD Cataloging No. C13.10-266.



This document contains photographs, to scale, of boats used by the U.S. Coast Guard Research and Development Center's Recreational Boating Safety - Safe Loading Project. It is to be used as a reference in conjunction with other reports in this project area.

Each test boat is numbered by fiscal year purchased and consecutive number within that year. For example, Boat Number 73-18 is the eighteenth boat purchases in fiscal year 1973. For each boat in this document there are five pages. The first page provides general information, capacity plate information and motorwell information. The following four pages consist of scaled and guided photographs of the bow, side, top, stern, and bottom of each boat.

The photographs are mounted on a half-meter grid, so that accurate test boat measurements can be taken off the photographs.

LIST OF USCG R&D CENTER
RECREATIONAL BOATING SAFETY PROJECT TEST BOATS

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R&DC BOAT NUMBERS 73-18

GENERAL INFORMATION

Boat Type - Bowrider
Length Overall - 15.18 ft.
Beam Overall - 5.9 ft.
Beam at Chine
Weight - 820.8 lbs.
Longitudinal Center of Gravity - 72.54 in from transom
Vertical Center of Gravity - 18 inches from keel
Material - Fiberglass
General Hull Shape - Tri-Hull

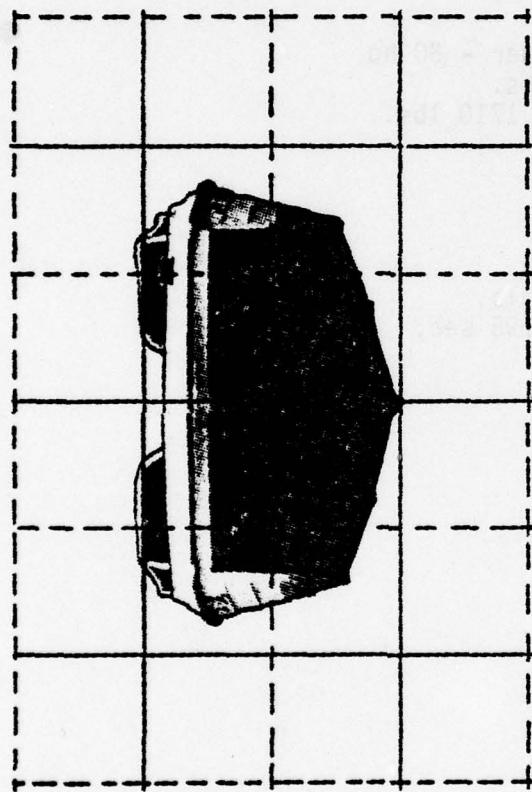
CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 80 hp
Persons Capacity - 1260 lbs.
Maximum Weight Capacity - 1710 lbs.

MOTORWELL INFORMATION

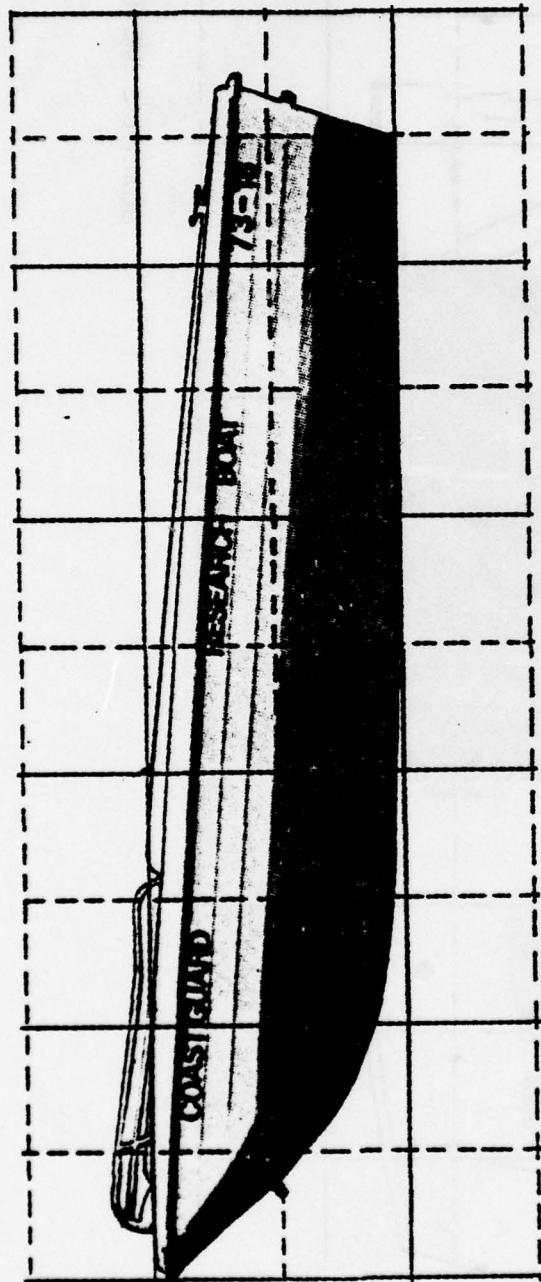
Number of Drains
Size of Drains - 15/16"
Motorwell Volume - 7.58 gals.
Motorwell Drain Time - 49.95 sec.

1. Bow
2. Side
3. Top
4. Stern
5. Bottom



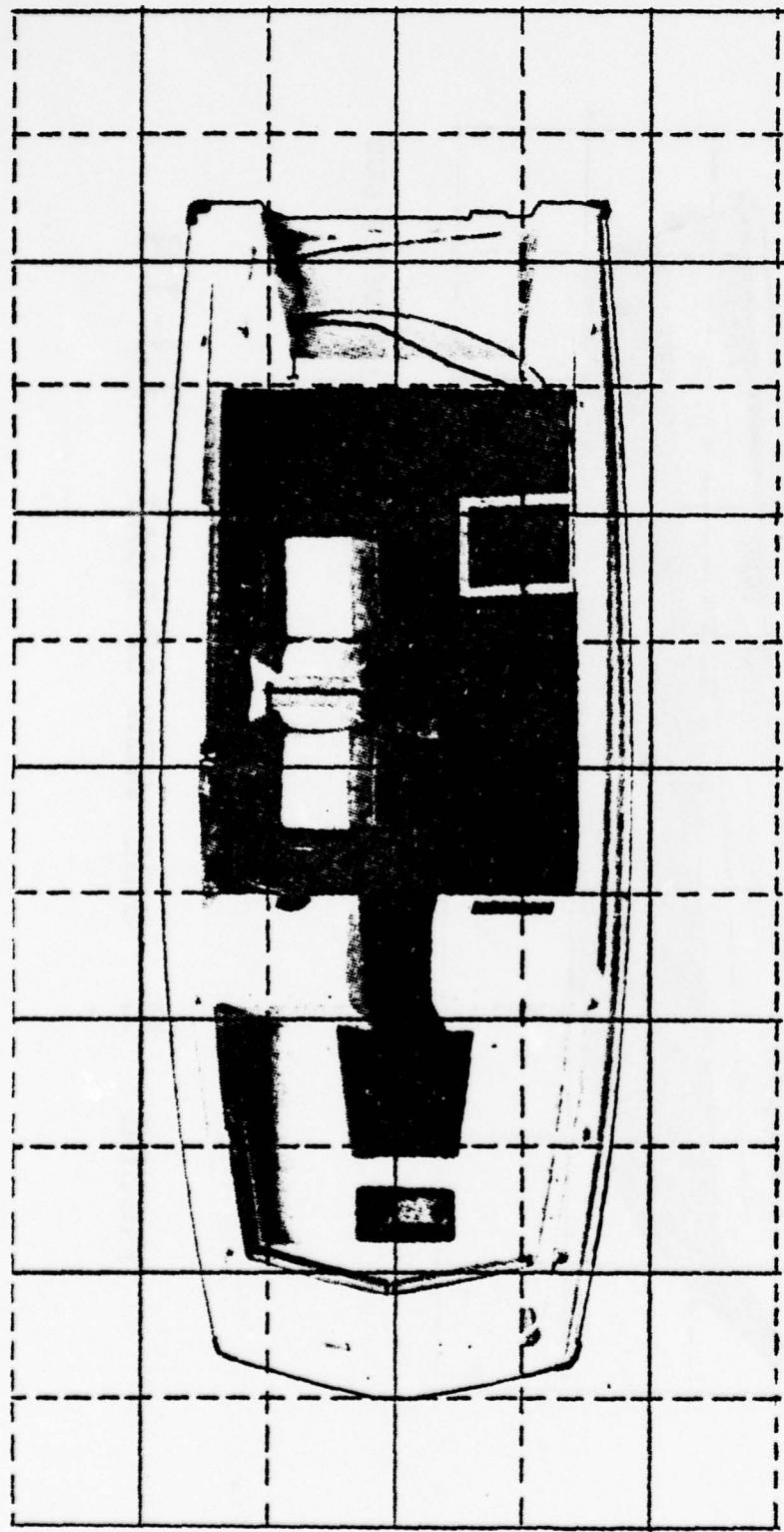
SCALE: 1/2 METER GRID

FIGURE 1 BOW VIEW OF BOAT 73-18



SCALE: 1/2 METER GRID

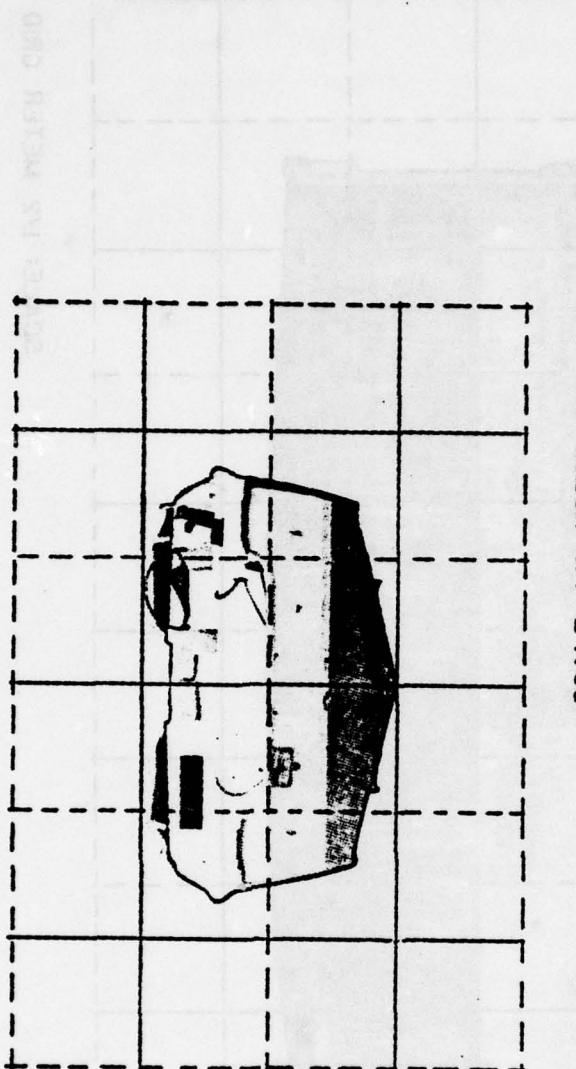
FIGURE 2 SIDE VIEW OF BOAT 73-18



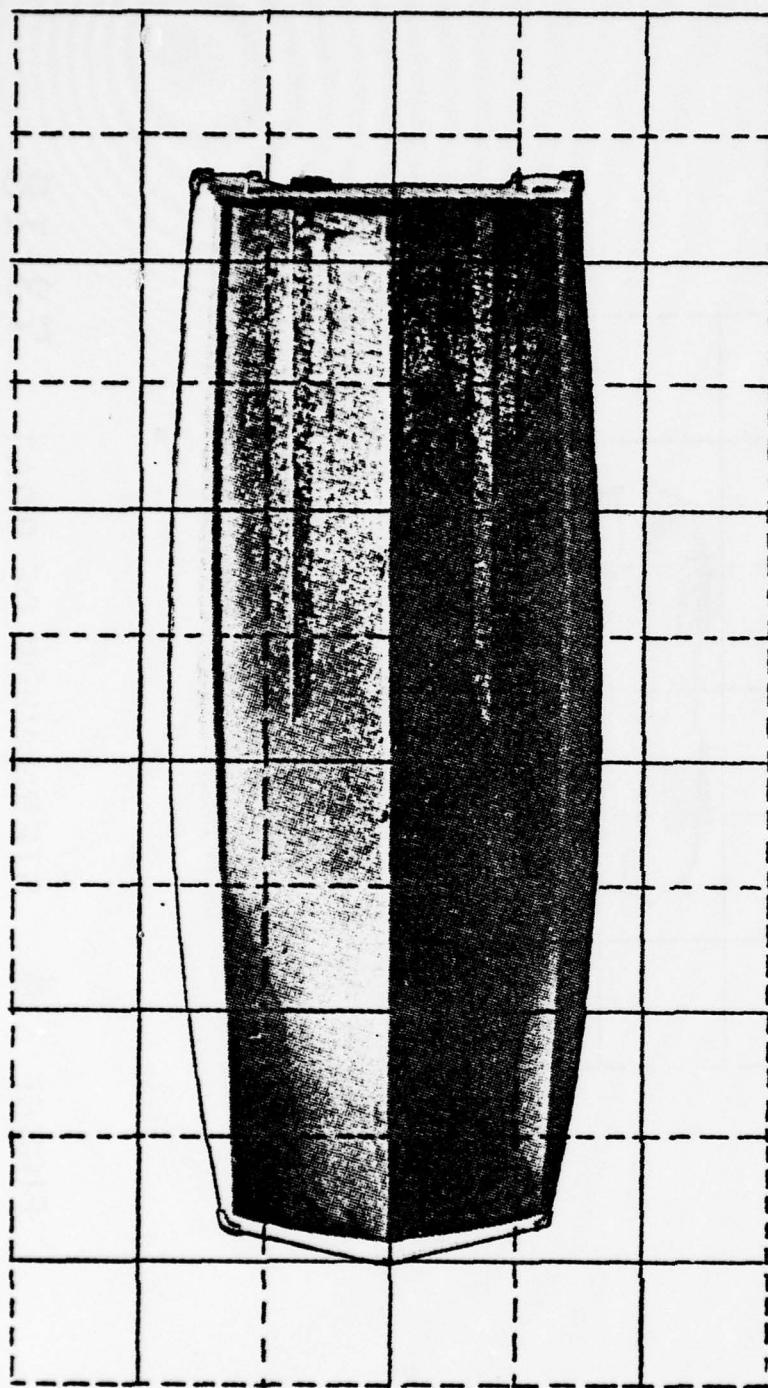
SCAL: 1/2 METER GRID

FIGURE 3 TOP VIEW OF BOAT 73-18

FIGURE 4 STERN VIEW OF BOAT 73-18



SCALE: 1/2 METER GRID



SCALE: 1/2 METER GRID

FIGURE 5 BOTTOM VIEW OF BOAT 73-18

R&DC BOAT NUMBER 74-03

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 11.58 ft.
Beam Overall - 4.5 ft.
Beam at Chine - 3.4 ft.
Weight - 113 lbs.
Longitudinal Center of Gravity - 6.33 ft. aft of bow
Vertical Center of Gravity - .65 ft. above keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 570 lbs.
Maximum Weight Capacity - 570 lbs

MOTORWELL INFORMATION

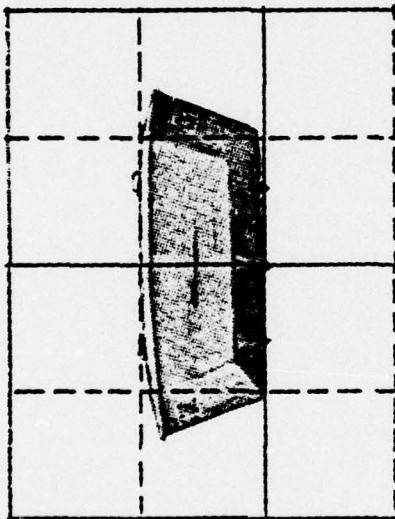
Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

6. Bow
7. Side
8. Stern
9. Top
10. Bottom

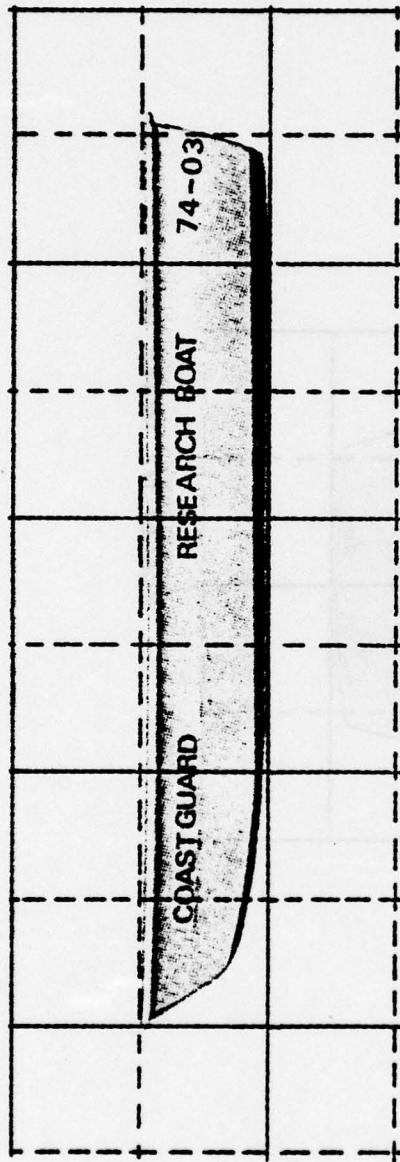
74-03

FIGURE 6 BOW VIEW OF BOAT

FIGURE



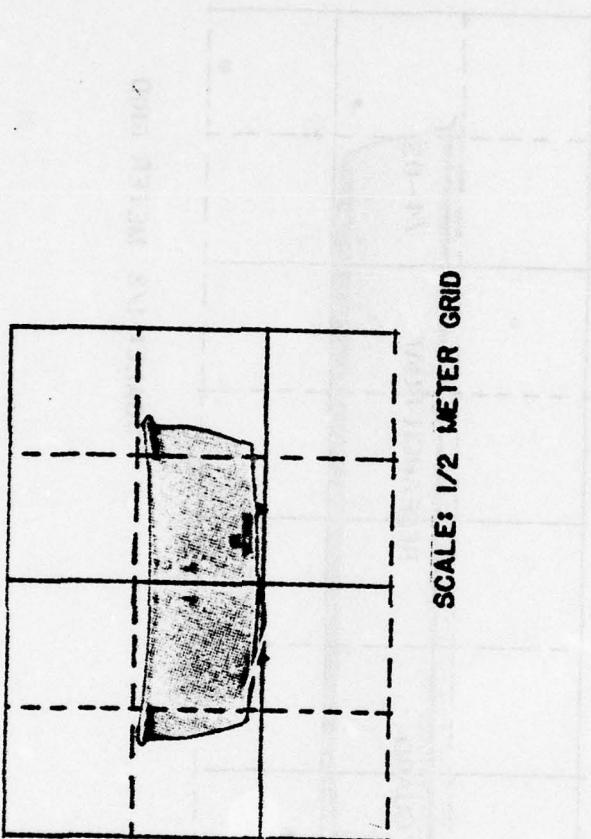
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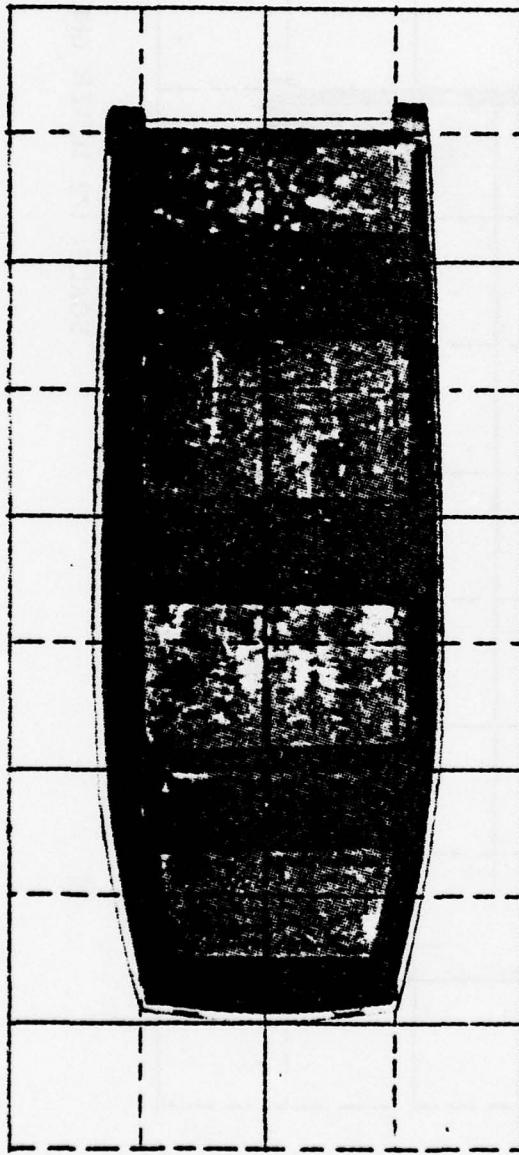


SCALE: 1/2 METER GRID

FIGURE 7 SIDE VIEW OF BOAT 74-03

FIGURE 8 STERN VIEW OF BOAT 74-03



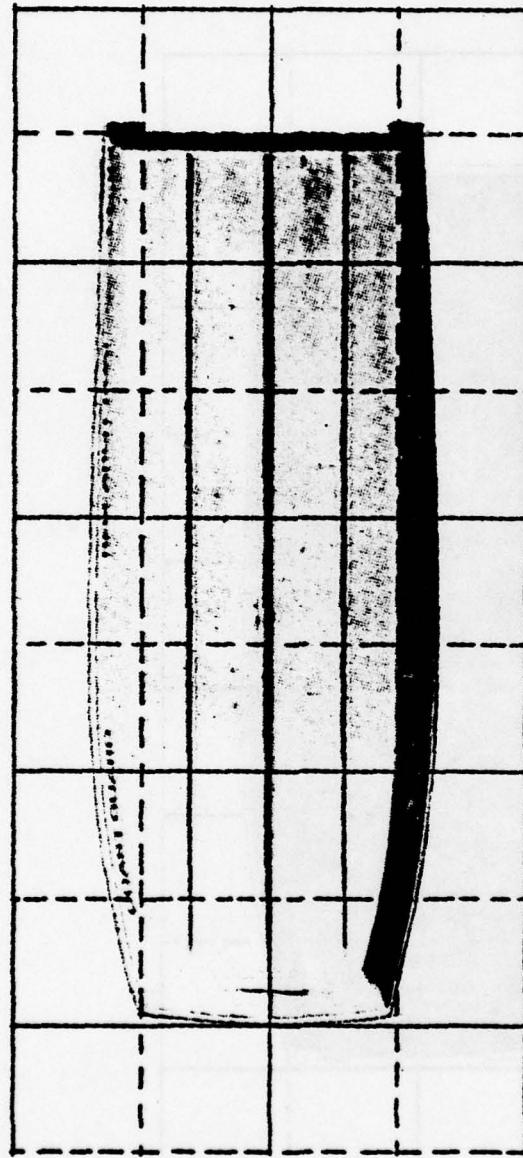


SCAL: 1/2 METER GRID

FIGURE 9 TOP VIEW OF BOAT 74-03

FIGURE 10 BOTTOM VIEW OF BOAT 74-03

SCALE: 1/2 METER GRID



R&DC BOAT NUMBER 75-07

GENERAL INFORMATION

Boat Type - Lightweight Skiff
Length Overall - 12.06 ft.
Beam Overall - 4.12 ft.
Beam at Chine - 3.5 ft.
Weight - 140 lbs
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Semi-Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 450 lbs
Maximum Weight Capacity - 590 lbs

MOTORWELL INFORMATION

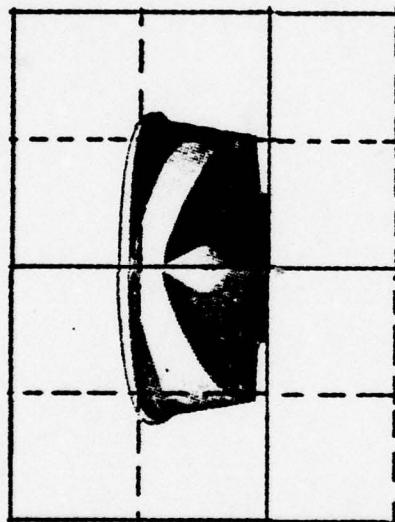
Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

11. Bow
12. Side
13. Stern
14. Top
15. Bottom

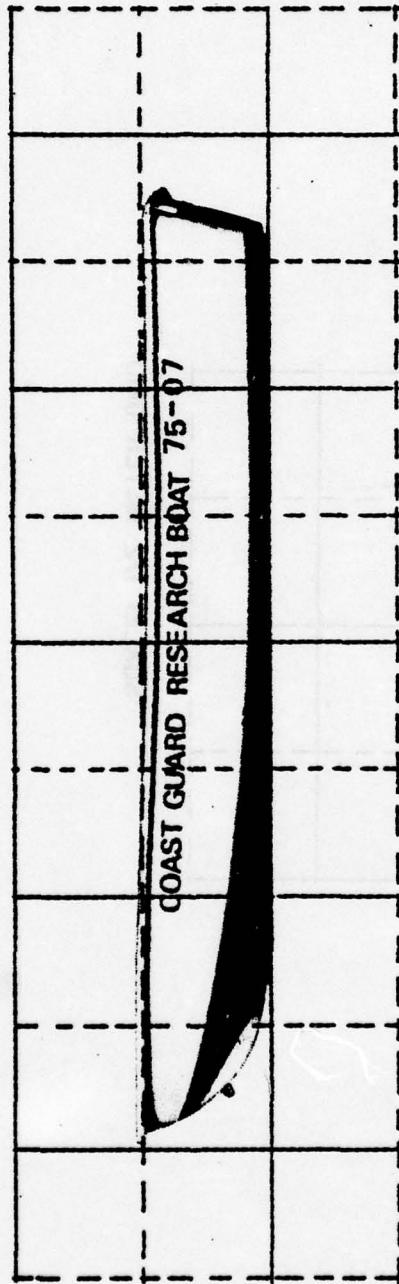
75-07

FIGURE 11 BOW VIEW OF BOAT

SCALE: 1/2 METER GRID



LICENCE NO. 173 COAST GUARD BOAT 75-07

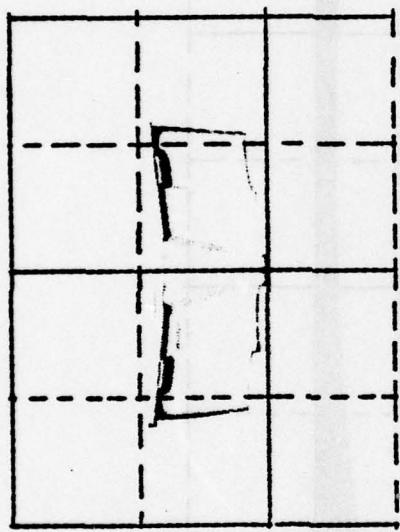


SCALE: 1/2 METER GRID

FIGURE 12 SIDE VIEW OF BOAT 75-07

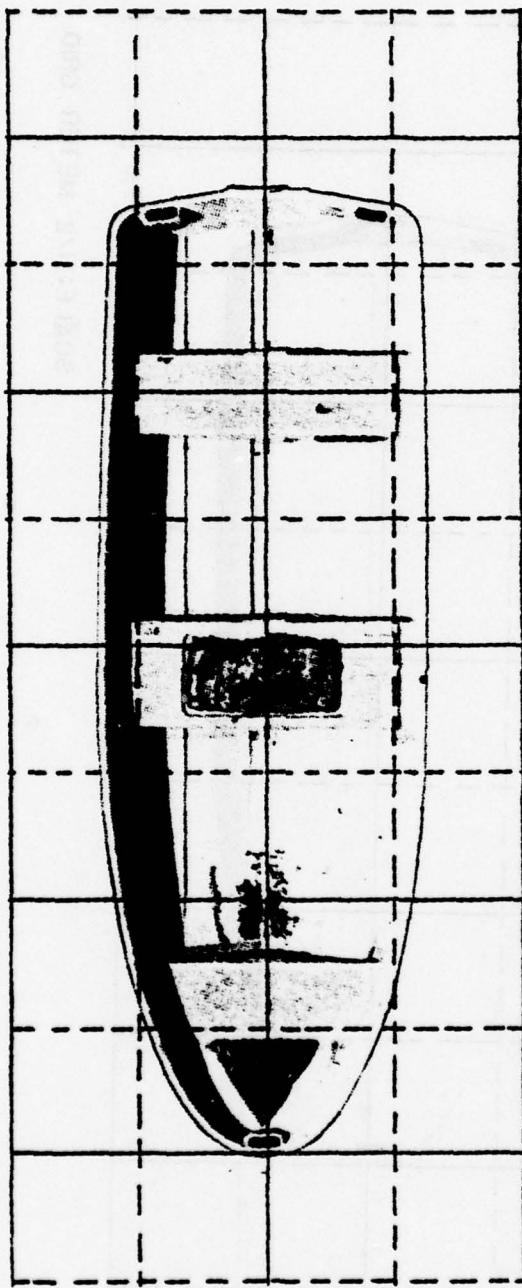
75-07

FIGURE 13 STERN VIEW OF BOAT



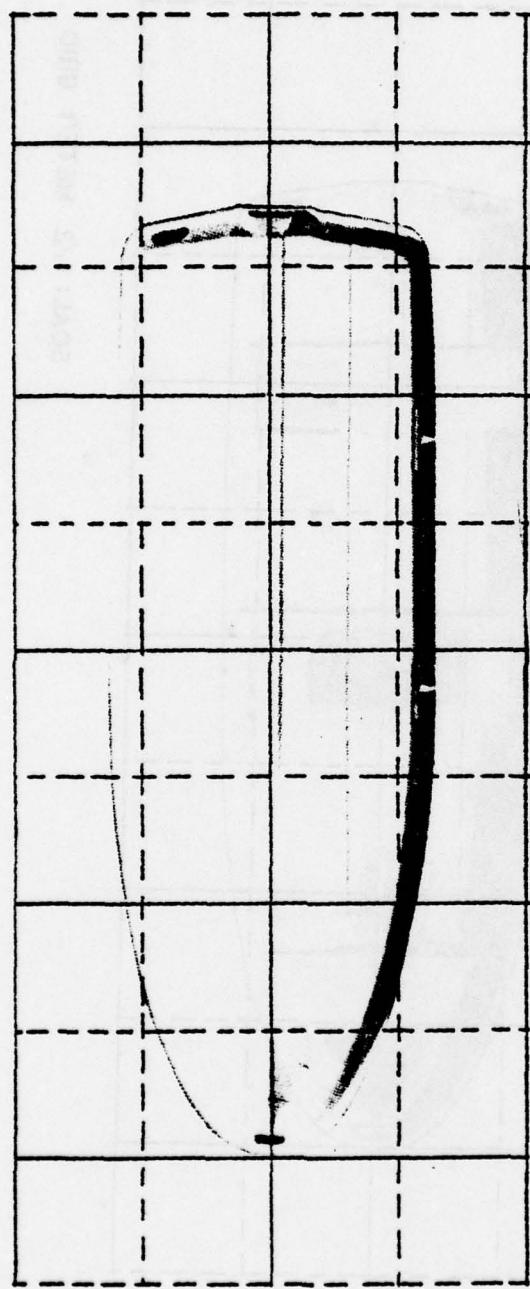
SCALE: 1/2 METER GRID

FIGURE 14 TOP VIEW OF BOAT 75-07



SCAL: 1/2 METER GRID

Length overall 12.00



SCALE: 1/2 METER GRID

FIGURE 15 BOTTOM VIEW OF BOAT 75-07

R&DC BOAT NUMBER 75-08

GENERAL INFORMATION

Boat Type - Lightweight Skiff
Length Overall - 11.71 ft.
Beam Overall - 4.59 ft.
Beam at Chine - 3.7 ft.
Weight - 119 lbs
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Semi-Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 450 lbs
Maximum Weight Capacity - 570 lbs

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

16. Bow
17. Side
18. Stern
19. Top
20. Bottom

75-08

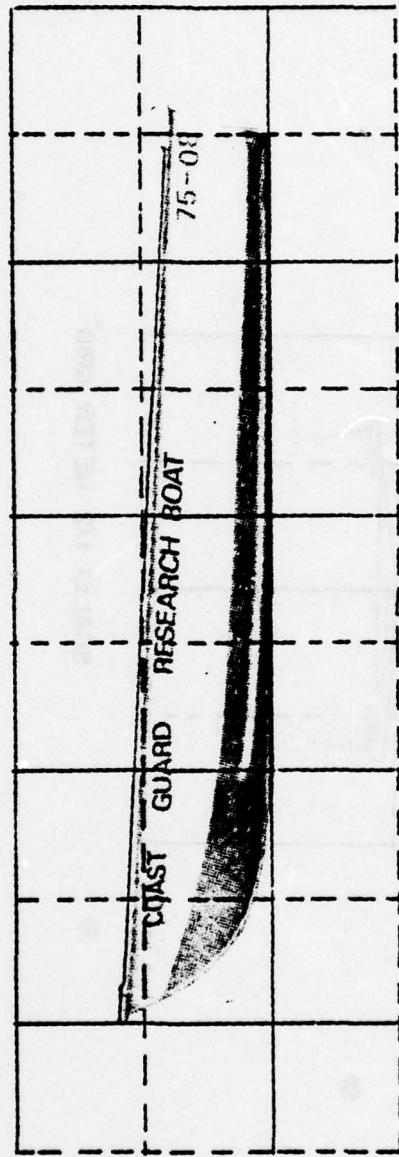
16 BOW VIEW OF BOAT

FIGURE

SCALE: 1/2 METER GRID



FIGURE 17 SIDE VIEW OF BOAT 75-08



SCALE: 1/2 METER GRID

FIGURE 18 STERN VIEW OF BOAT 75-08

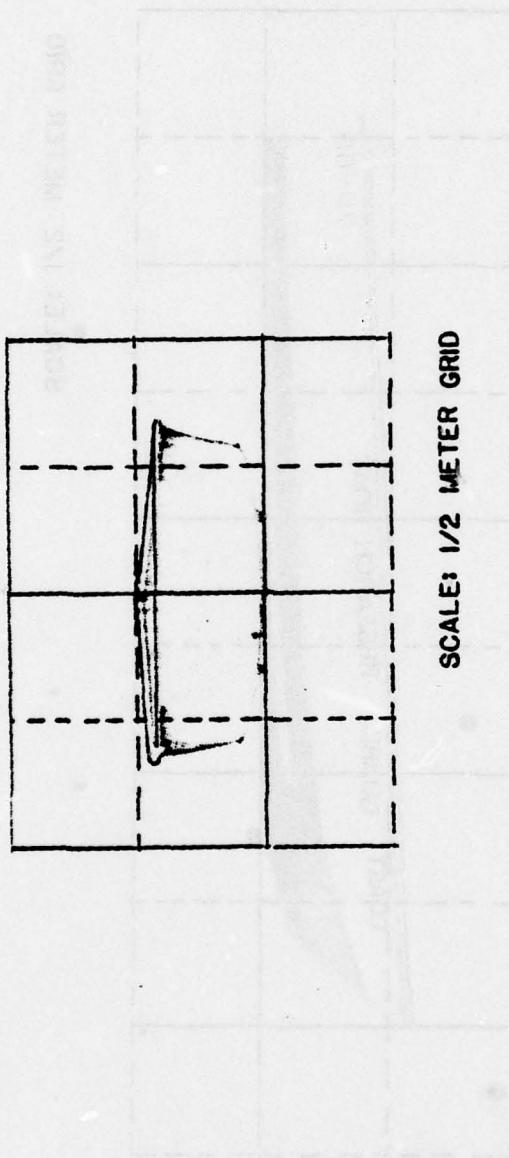


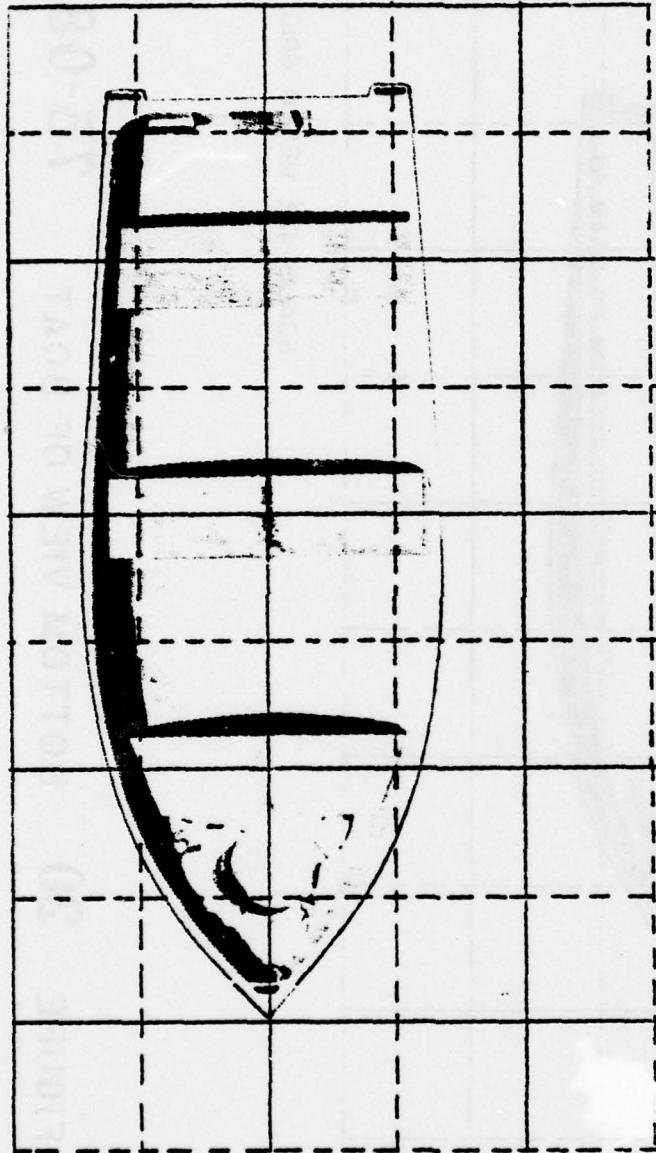
FIGURE 18 STERN VIEW OF BOAT 75-08

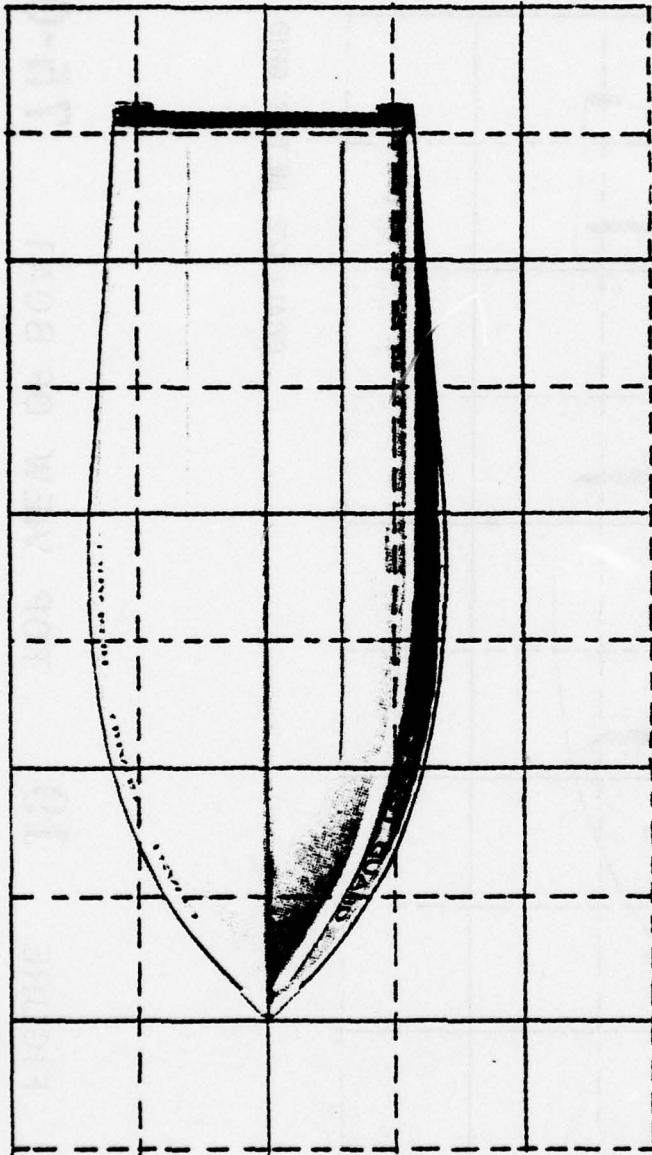
75-08

FIGURE 19

TOP VIEW OF BOAT

SCAL: 1/2 METER GRID





SCALE: 1/2 METER GRID

FIGURE 20 BOTTOM VIEW OF BOAT 75-08

R&DC BOAT NUMBER 75-09

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 13.97 ft.
Beam Overall - 5.08 ft.
Beam at Chine - 3.53 ft.
Weight - 206 lbs
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Flat-Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 25 hp
Persons Capacity - 500 lbs
Maximum Weight Capacity - 700 lbs

MOTORWELL INFORMATION

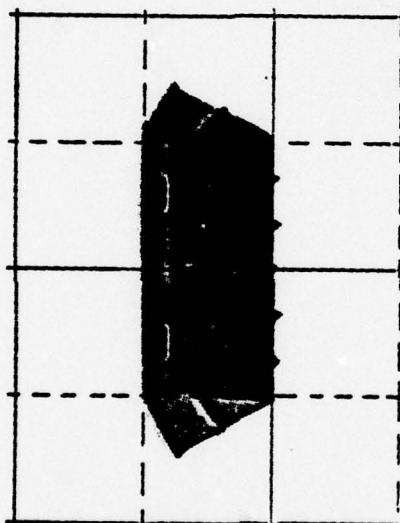
Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

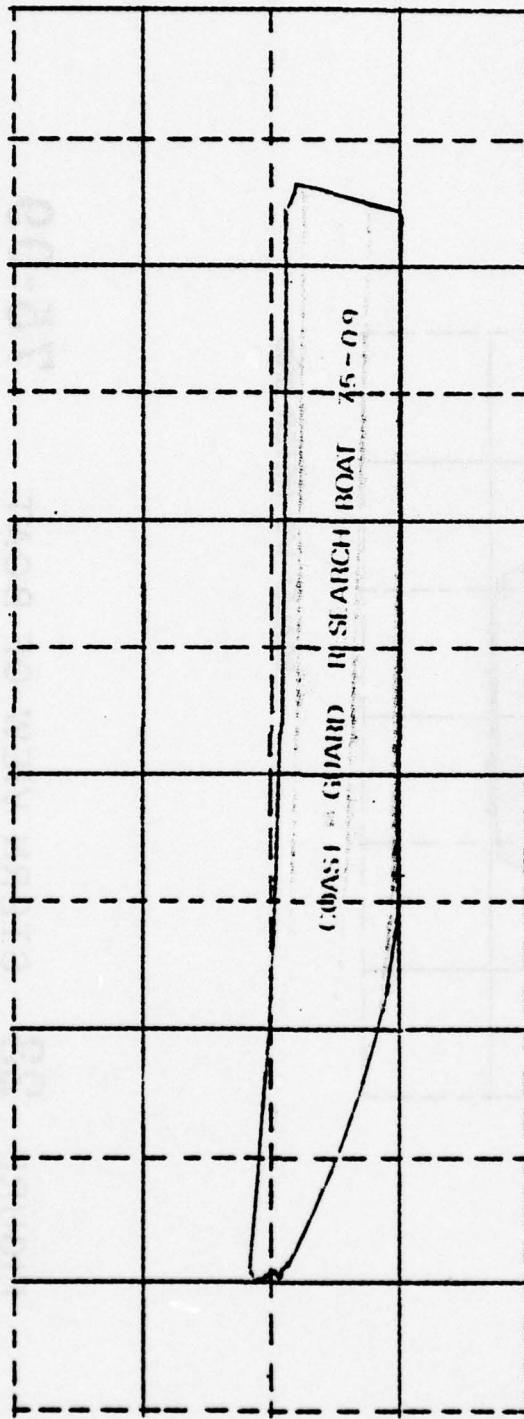
21. Bow
22. Side
23. Stern
24. Top

75-09

FIGURE 21 BOW VIEW OF BOAT

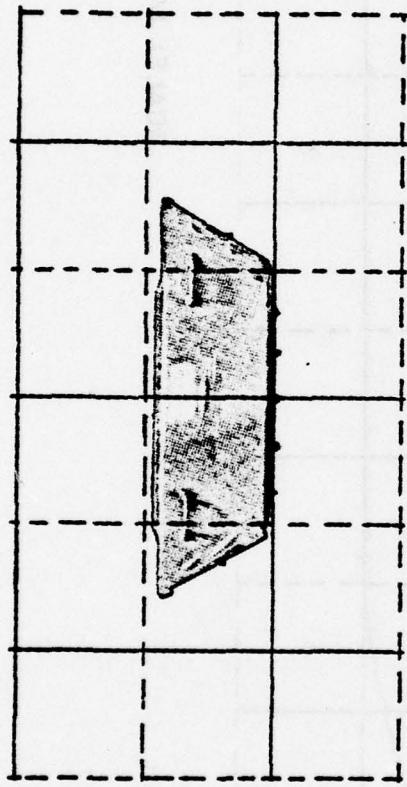
SCALE: 1/2 METER GRID





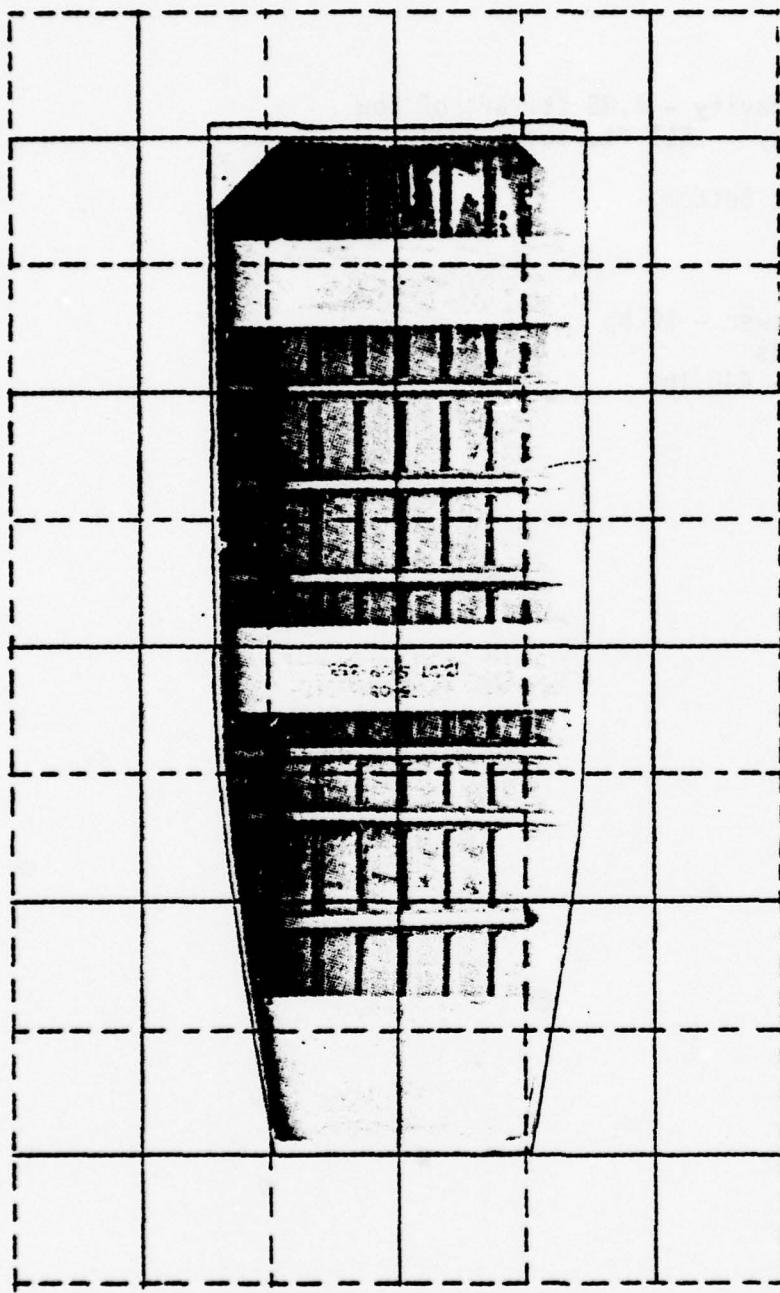
SCALE: 1/2 METER GRID

FIGURE 22 SIDE VIEW OF BOAT 75-09



SCALE: 1/2 METER GRID

FIGURE 23 STERN VIEW OF BOAT 75-09



SCAL: 1/2 METER GRID

FIGURE 24 TOP VIEW OF BOAT 75-09

R&DC BOAT NUMBER 75-12

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 14.03 ft.
Beam Overall - 3.71 ft.
Beam at Chine - 2.52 ft.
Weight - 90 lbs
Longitudinal Center of Gravity - 7.86 ft. aft of bow
Vertical Center of Gravity - .511 ft. above keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 300 lbs
Maximum Weight Capacity - 440 lbs

MOTORWELL INFORMATION

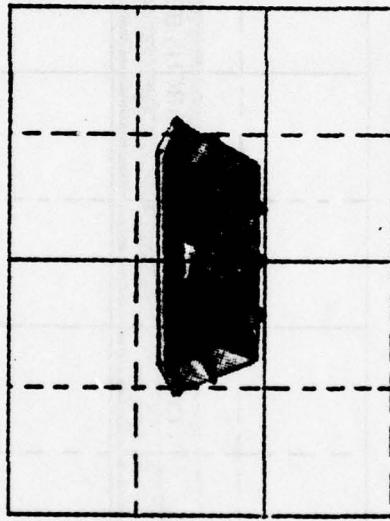
Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

25. Bow
26. Side
27. Stern
28. Top

75-12

FIGURE 25 BOW VIEW OF BOAT

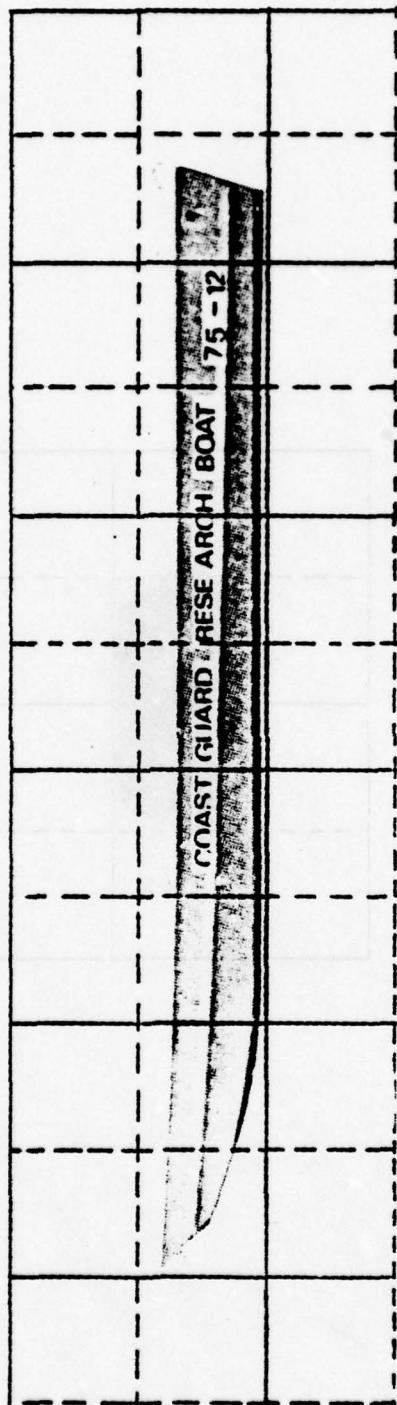
SCALE: 1/2 METER GRID



BOAT AND WHEEL GRID

LICENCE 750 BOW VIEW OF BOAT 12-15

FIGURE 26 SIDE VIEW OF BOAT 75-12



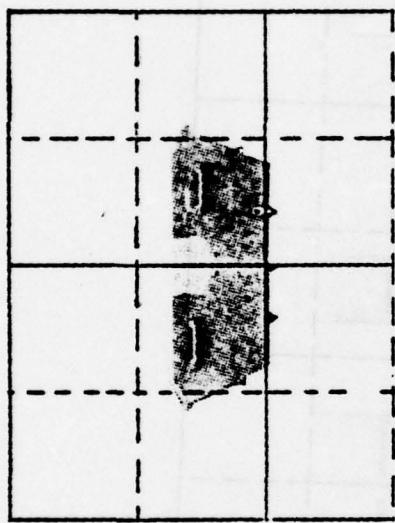
SCALE: 1/2 METER GRID

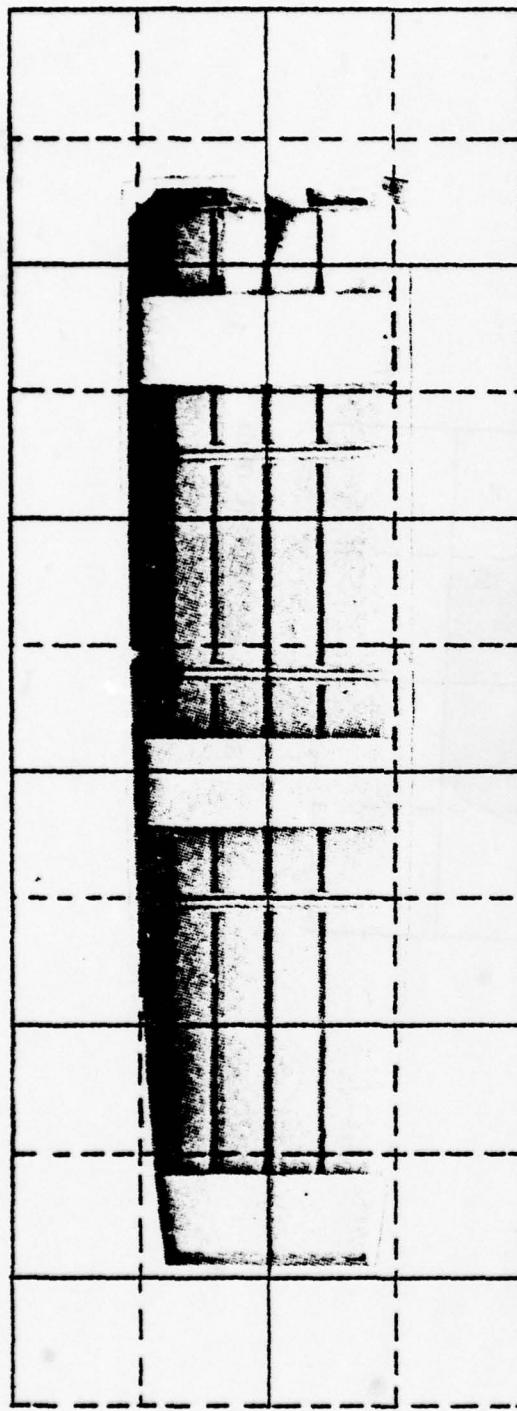
75-12

FIGURE 27 STERN VIEW OF BOAT

FIGURE

SCALE: 1/2 METER GRID





SCAL: 1/2 METER GRID

FIGURE 28 TOP VIEW OF BOAT 75-12

R&DC BOAT NUMBER 75-13

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 14.03 ft.
Beam Overall - 4.07 ft.
Beam at Chine - 2.73 ft.
Weight - 133 lbs
Longitudinal Center of Gravity - 8.06 ft. aft of bow
Vertical Center of Gravity - .528 ft. above keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 300 lbs
Maximum Weight Capacity - 510 lbs

MOTORWELL INFORMATION

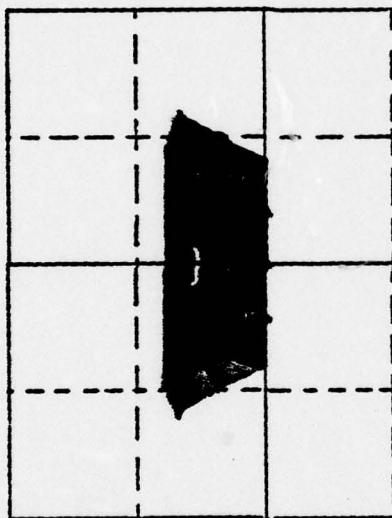
Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

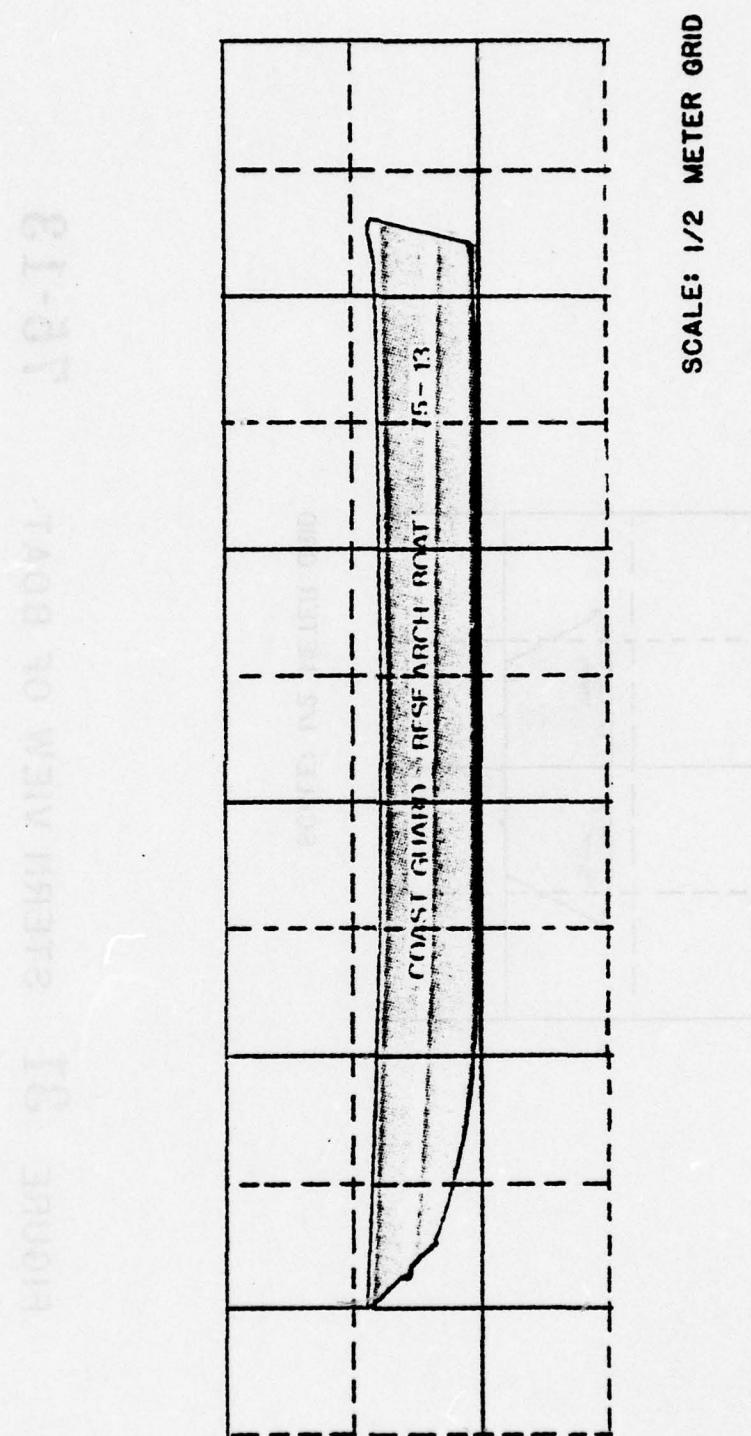
29. Bow
30. Side
31. Stern
32. Top

75-13

29 BOW VIEW OF BOAT

FIGURE





75-13

FIGURE 31 STERN VIEW OF BOAT

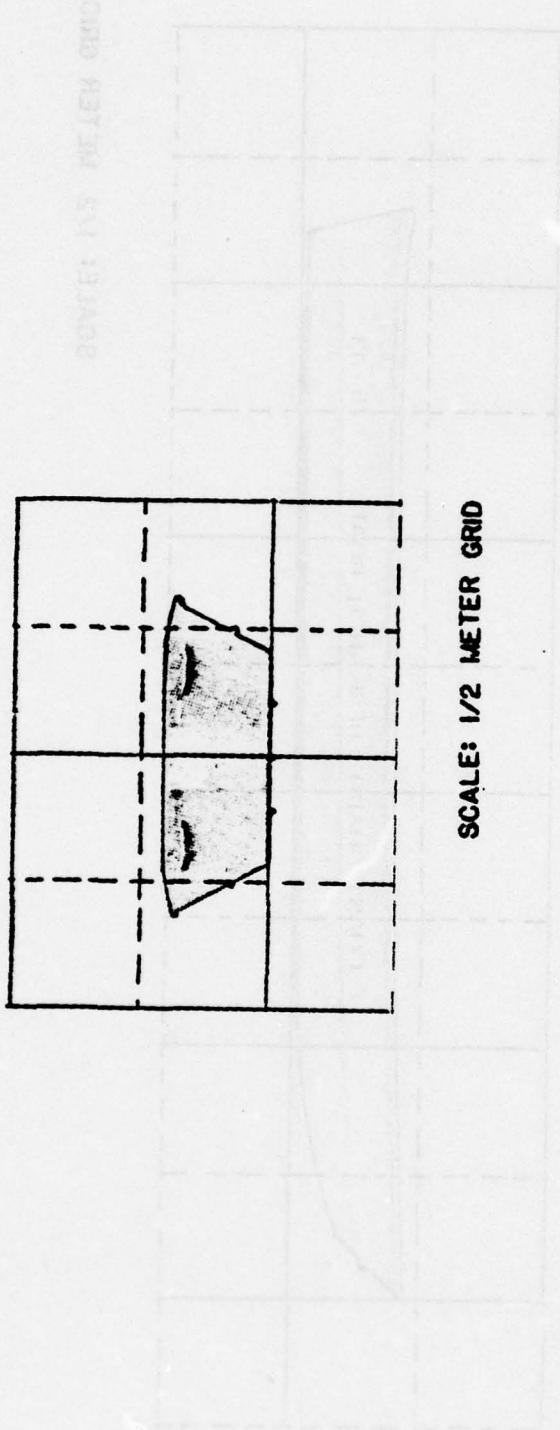
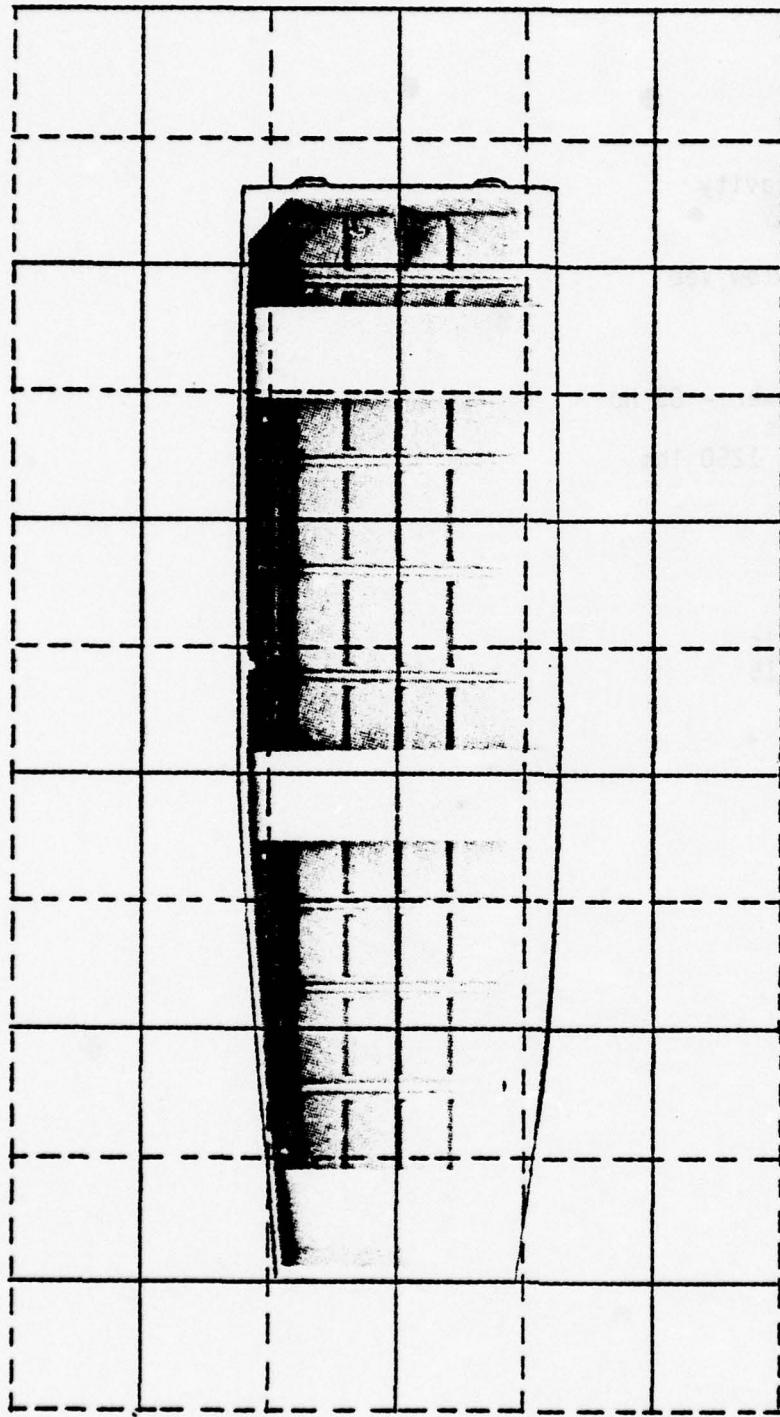


FIGURE 30 SIDE VIEW OF BOAT 75-13



SCAL: 1/2 METER GRID

FIGURE 32 TOP VIEW OF BOAT 75-13

R&DC BOAT NUMBER 75-14

GENERAL INFORMATION

Boat Type - Runabout
Length Overall - 15 ft.
Beam Overall - 6.3 ft.
Beam at Chine
Weight - 700 lbs
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Shallow Vee

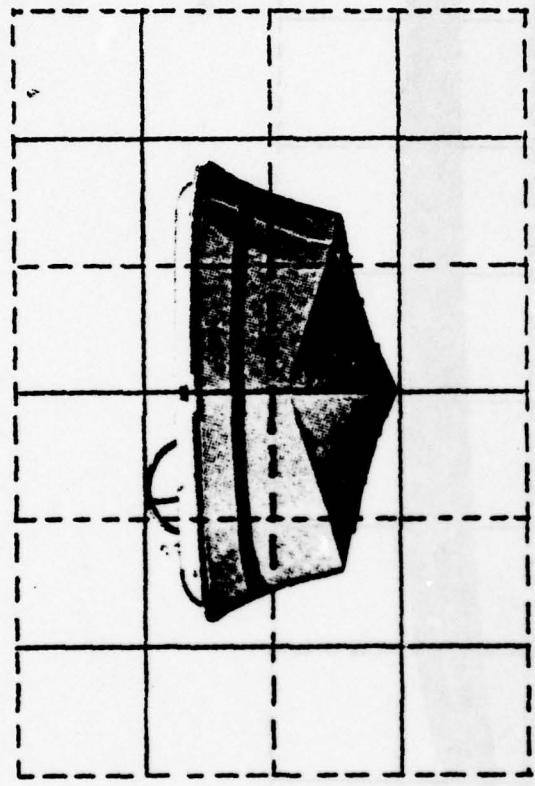
CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 85 hp
Persons Capacity - 750 lbs
Maximum Weight Capacity - 1250 lbs

MOTORWELL INFORMATION

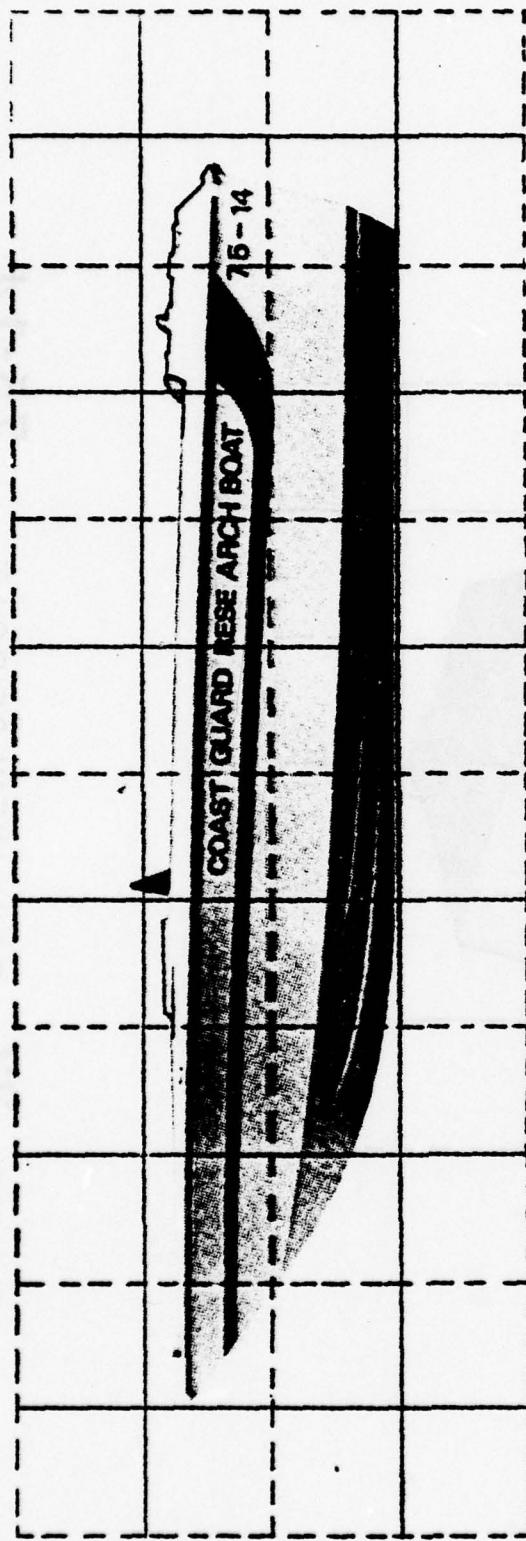
Number of Drains - 2
Size of Drains - 3/4"
Motorwell Volume - 8.0 gals
Motorwell Drain Time - 1:15

33. Bow
34. Side
35. Stern
36. Top
37. Bottom



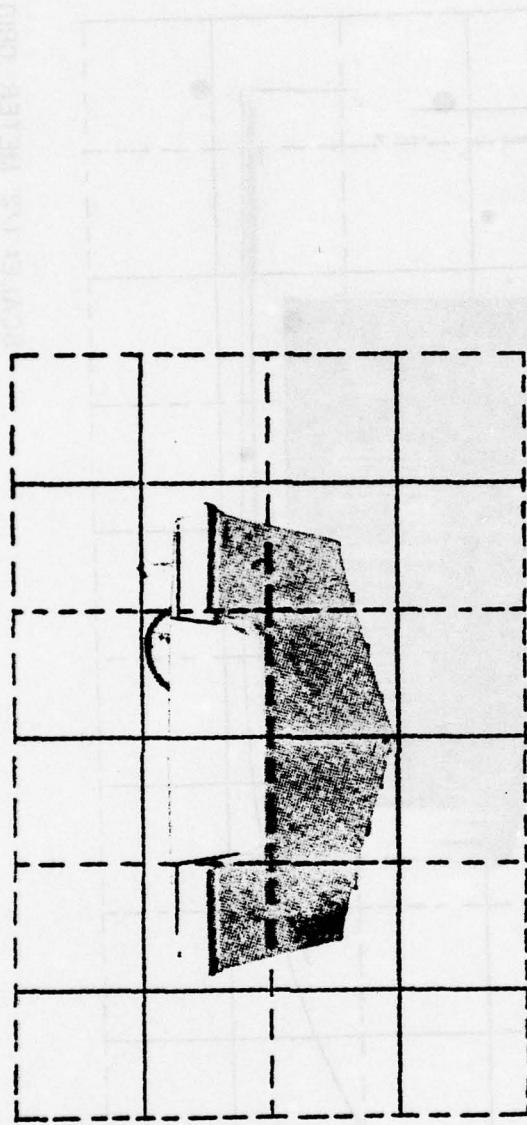
SCALE: 1/2 METER GRID

FIGURE 33 BOW VIEW OF BOAT 75-14



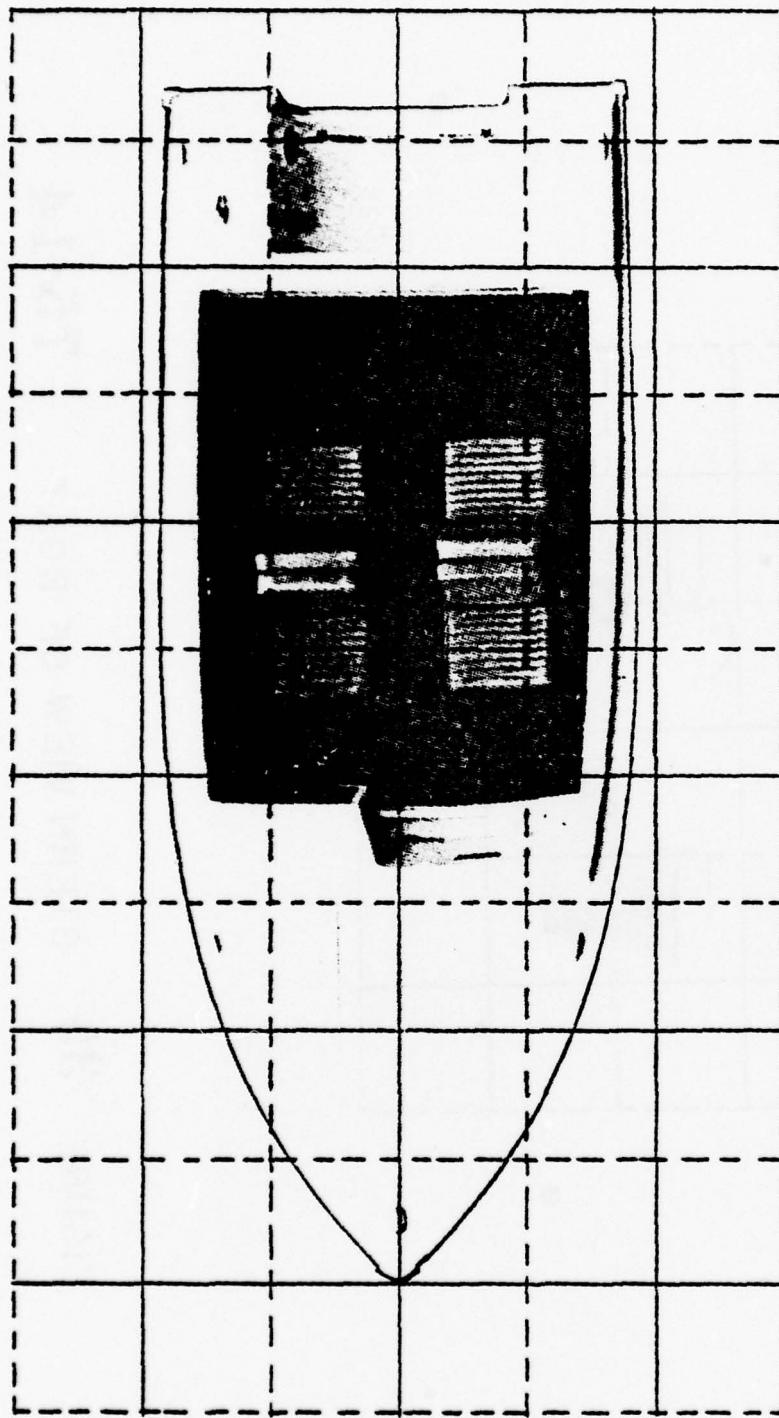
SCALE: 1/2 METER GRID

FIGURE 34 SIDE VIEW OF BOAT 75-14



SCALE: 1/2 METER GRID

FIGURE 35 STERN VIEW OF BOAT 75-14



SCALE: 1/2 METER GRID

FIGURE 36 TOP VIEW OF BOAT 75-14

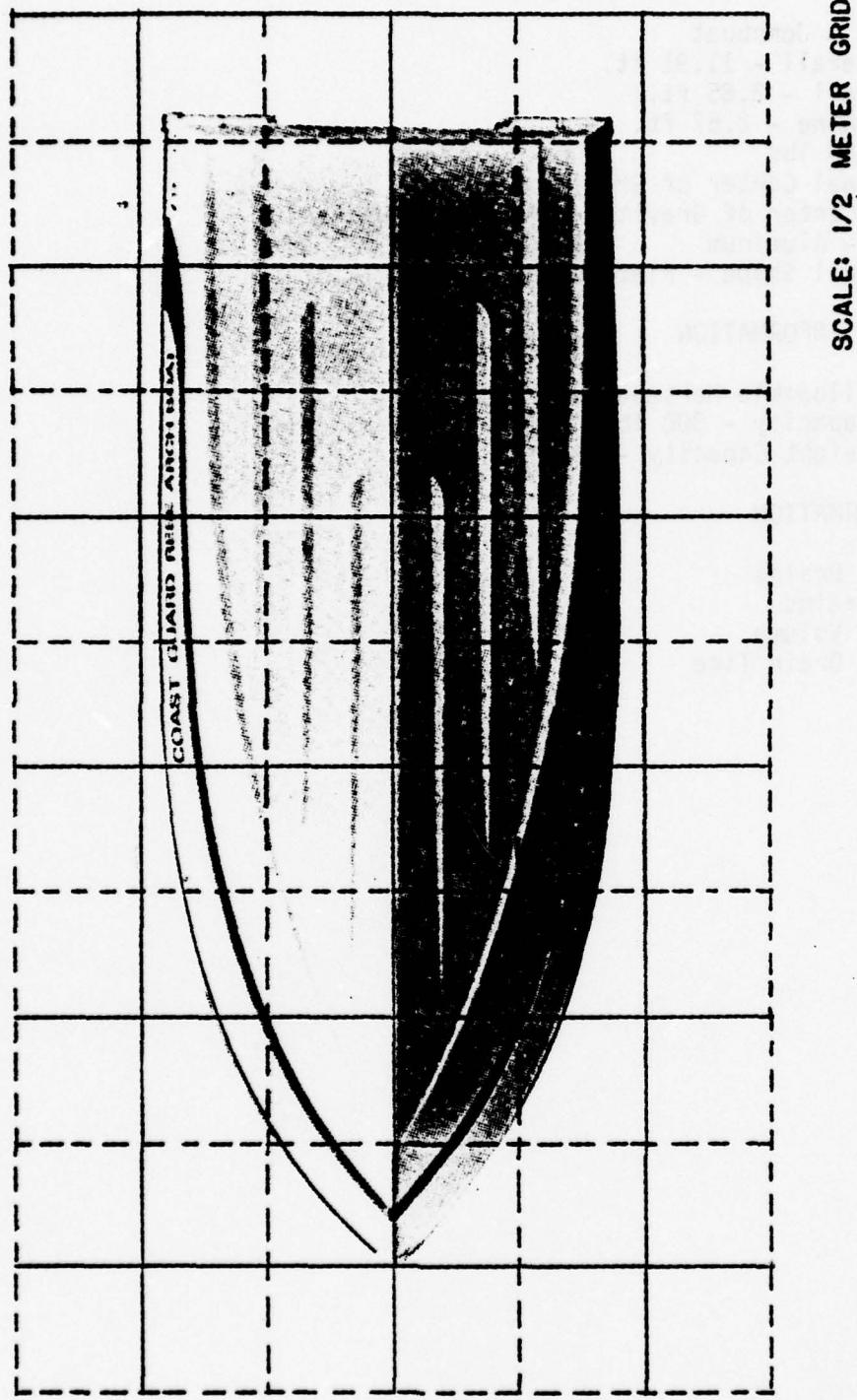


FIGURE 37 BOTTOM VIEW OF BOAT 75-14

R&DC BOAT NUMBER 75-15

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 11.91 ft.
Beam Overall - 3.85 ft.
Beam at Chine - 2.67 ft.
Weight - 80 lbs
Longitudinal Center of Gravity
Vertical Center of Gravity - .45 ft. above keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 5 hp
Persons Capacity - 300 lbs
Maximum Weight Capacity - 390 lbs

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

38. Bow
39. Side
40. Stern
41. Top

75-15

FIGURE 38 BOW VIEW OF BOAT

SCALE: 1/2 METER GRID

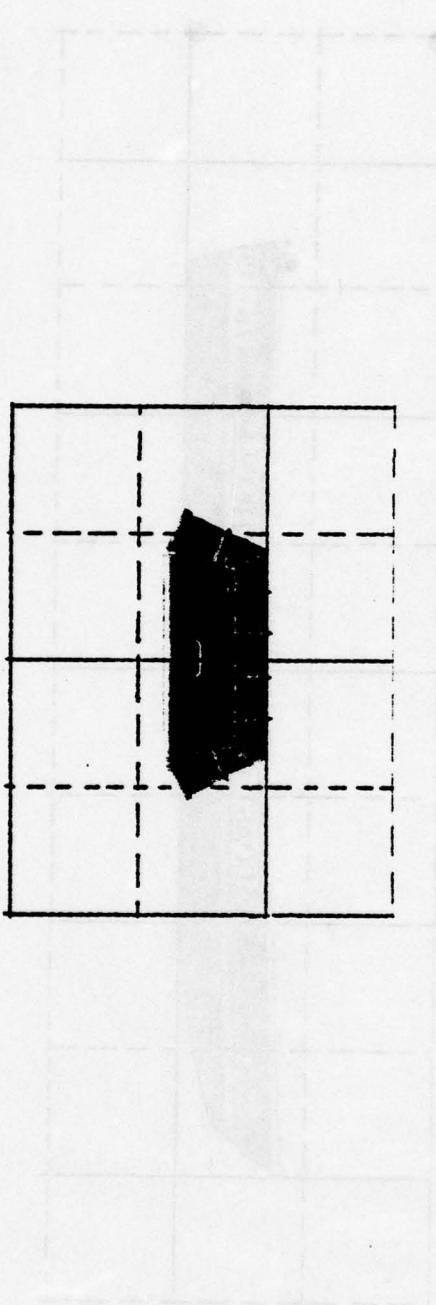
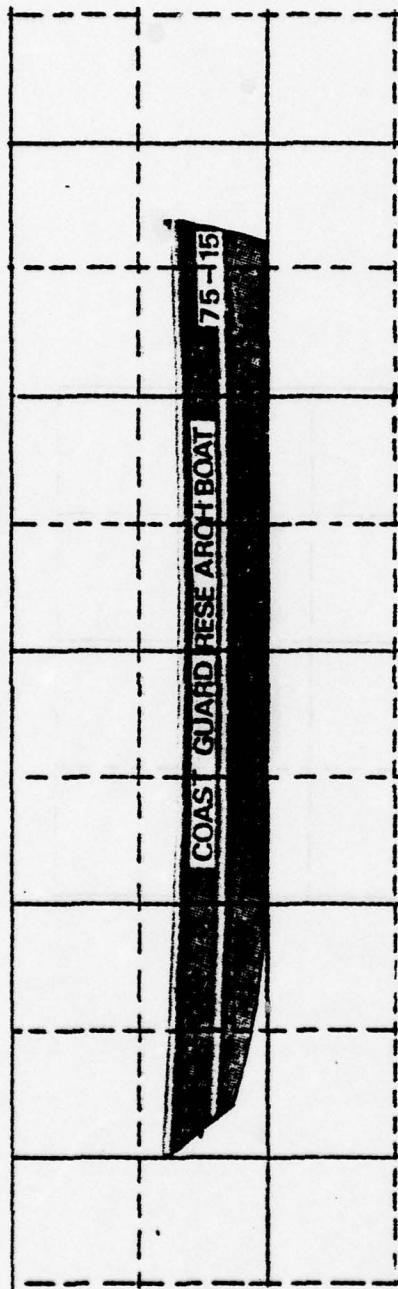


FIGURE 38 BOW VIEW OF BOAT
75-15

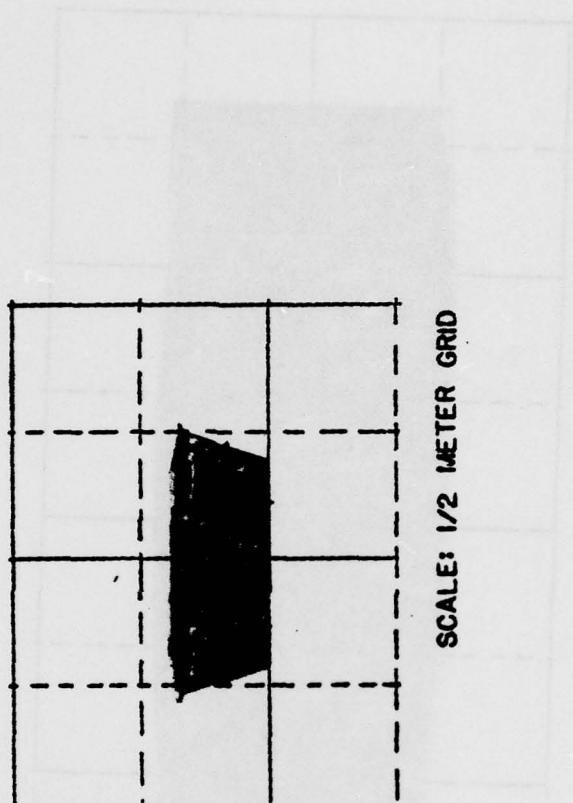


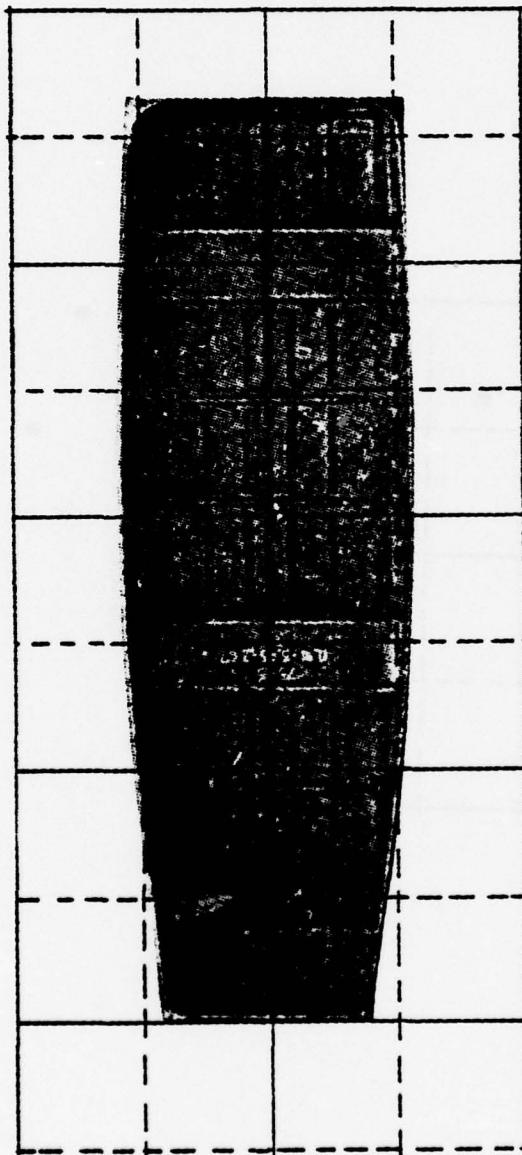
SCALE: 1/2 METER GRID

FIGURE 39 SIDE VIEW OF BOAT 75-15

75-15

FIGURE 40 STERN VIEW OF BOAT





SCAL: 1/2 METER GRID

FIGURE 41 TOP VIEW OF BOAT 75-15

R&DC BOAT NUMBER 75-16

GENERAL INFORMATION

Boat Type - Lightweight Skiff
Length Overall - 12.0 ft.
Beam Overall - 4.30 ft.
Beam at Chine - 3.20 ft.
Weight - 98 lbs
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Semi-Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 325 lbs.
Maximum Weight Capacity - 465 lbs.

MOTORWELL INFORMATION

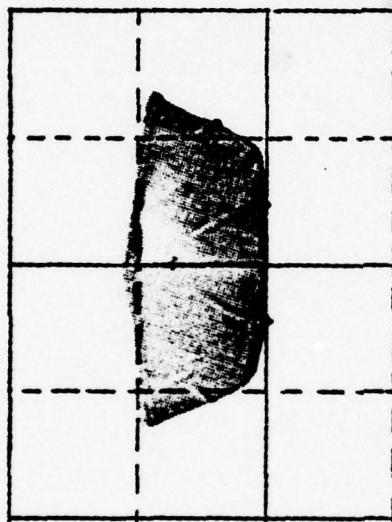
Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

42. Bow
43. Side
44. Stern
45. Top

75-16

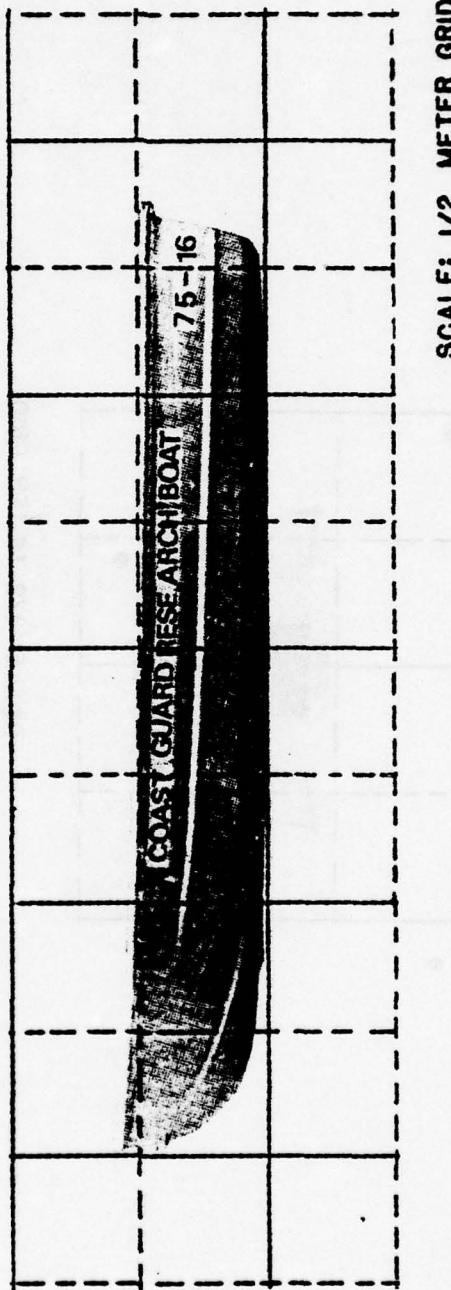
42 BOW VIEW OF BOAT

SCALE: 1/2 METER GRID



FIGURE

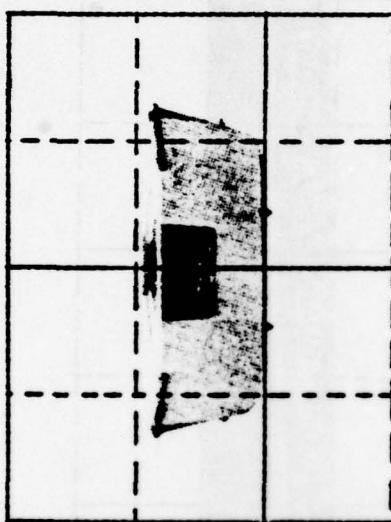
FIGURE 43 SIDE VIEW OF BOAT 75-16

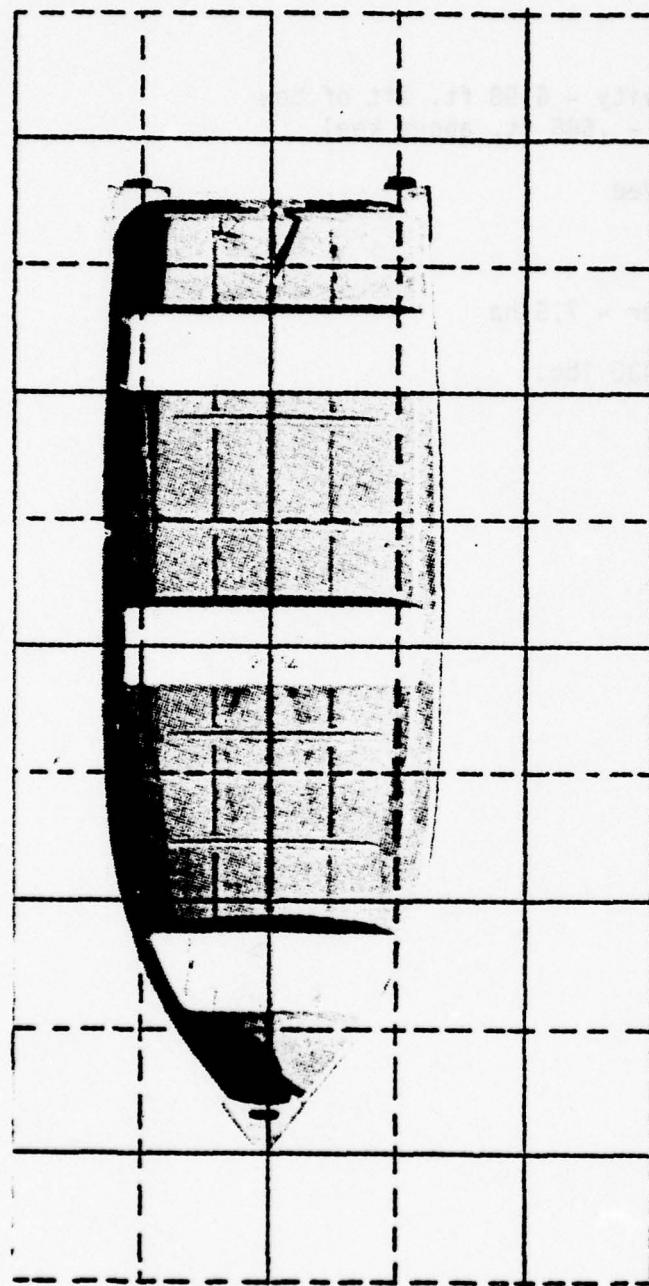


75-16

FIGURE 44 STERN VIEW OF BOAT

SCALE: 1/2 METER GRID





SCAL: 1/2 METER GRID

FIGURE 45 TOP VIEW OF BOAT 75-16

R&DC BOAT NUMBER 75-17

GENERAL INFORMATION

Boat Type - Lightweight Skiff
Length Overall - 11.97 ft.
Beam Overall - 4.13 ft.
Beam at Chine - 3.20 ft.
Weight - 82 lbs.
Longitudinal Center of Gravity - 6.98 ft. aft of bow
Vertical Center of Gravity - .686 ft. above keel
Material - Aluminum
General Hull Shape - Semi-Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 7.5 hp
Persons Capacity - 290 lbs.
Maximum Weight Capacity - 430 lbs.

MOTORWELL INFORMATION

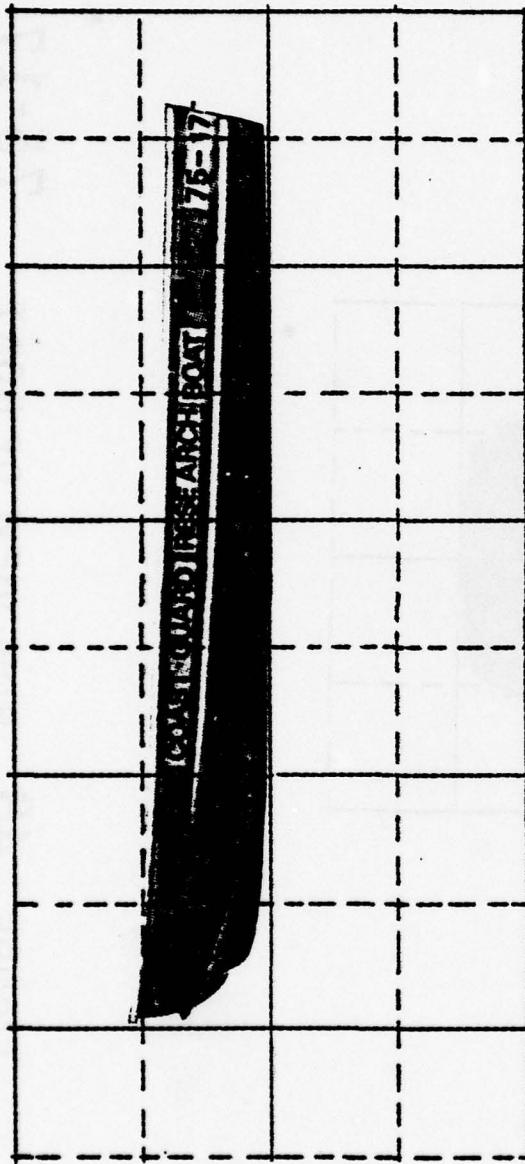
Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

46. Bow
47. Side
48. Stern
49. Top



SCALE: 1/2 METER GRID

FIGURE 46 BOW VIEW OF BOAT 75-17



SCALE: 1/2 METER GRID

FIGURE 47 SIDE VIEW OF BOAT 75-17

75-17

FIGURE 48 STERN VIEW OF BOAT

SCALE: 1/2 METER GRID

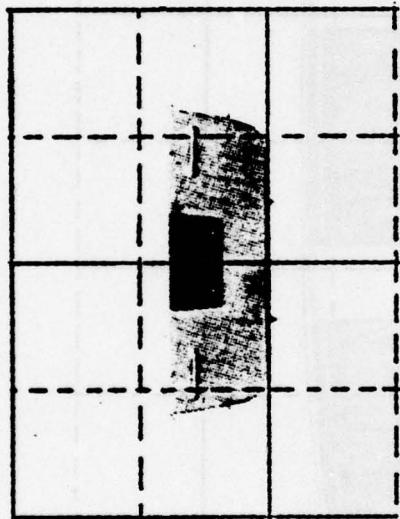
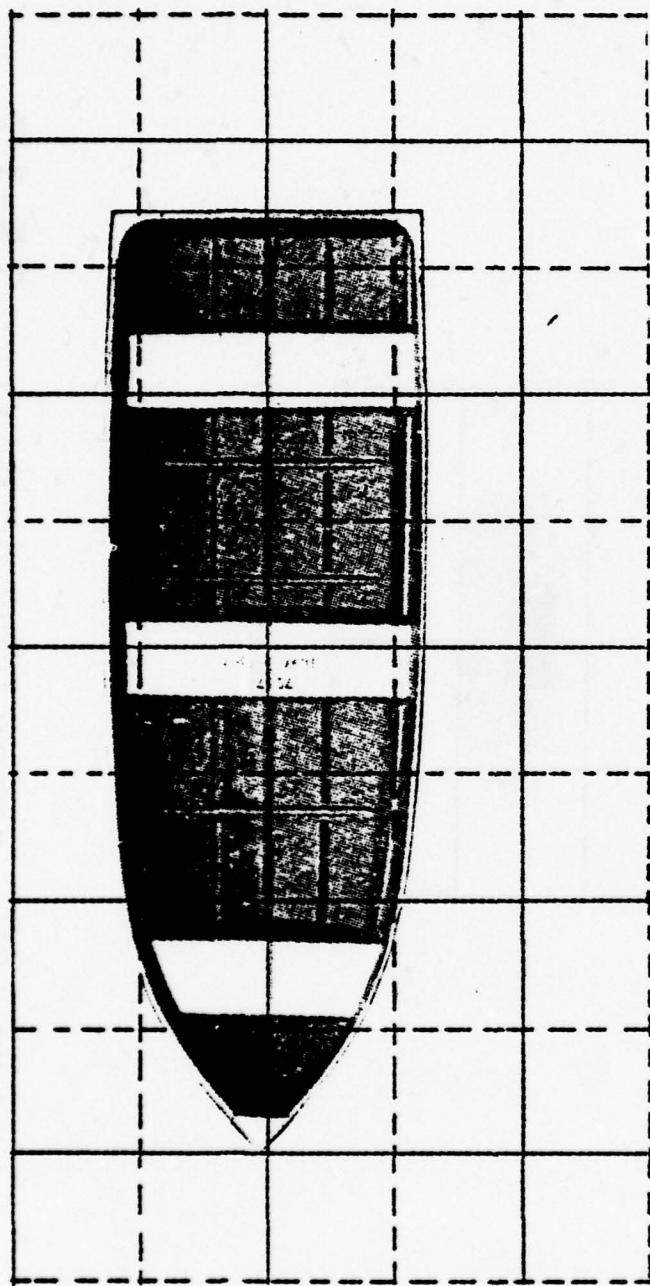


FIGURE 48 STERN VIEW OF BOAT 75-17



SCAL: 1/2 METER GRID

FIGURE 49 TOP VIEW OF BOAT 75-17

R&DC BOAT NUMBER 75-18

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 11.85 ft.
Beam Overall - 3.64 ft.
Beam at Chine - 2.54 ft.
Weight - 71 lbs
Longitudinal Center of Gravity - 6.39 ft. Aft of Bow
Vertical Center of Gravity - .535 ft. Above Keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 3 hp
Persons Capacity - 150 lbs.
Maximum Weight Capacity - 300 lbs.

MOTORWELL INFORMATION

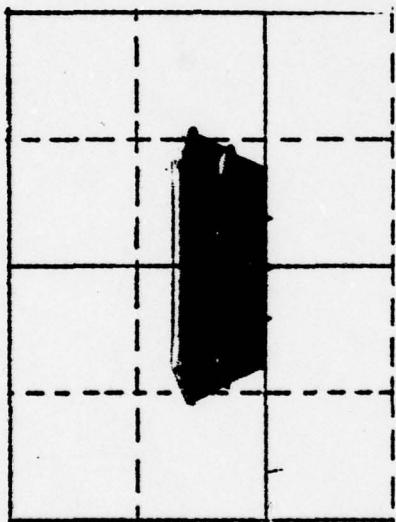
Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

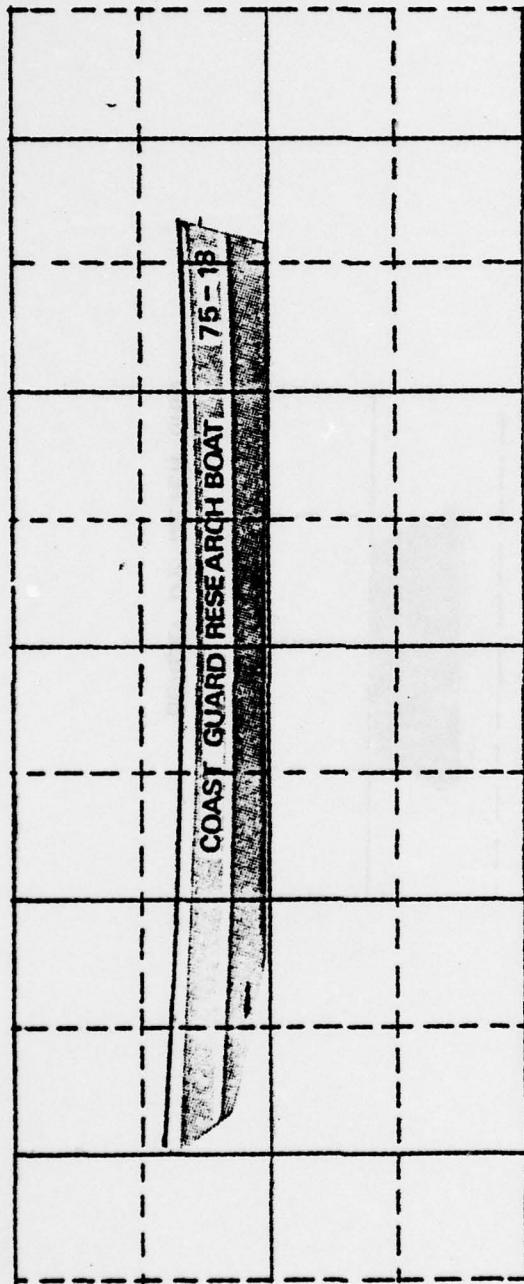
- 50. Bow
- 51. Side
- 52. Stern
- 53. Top

75-18

FIGURE 50 BOW VIEW OF BOAT

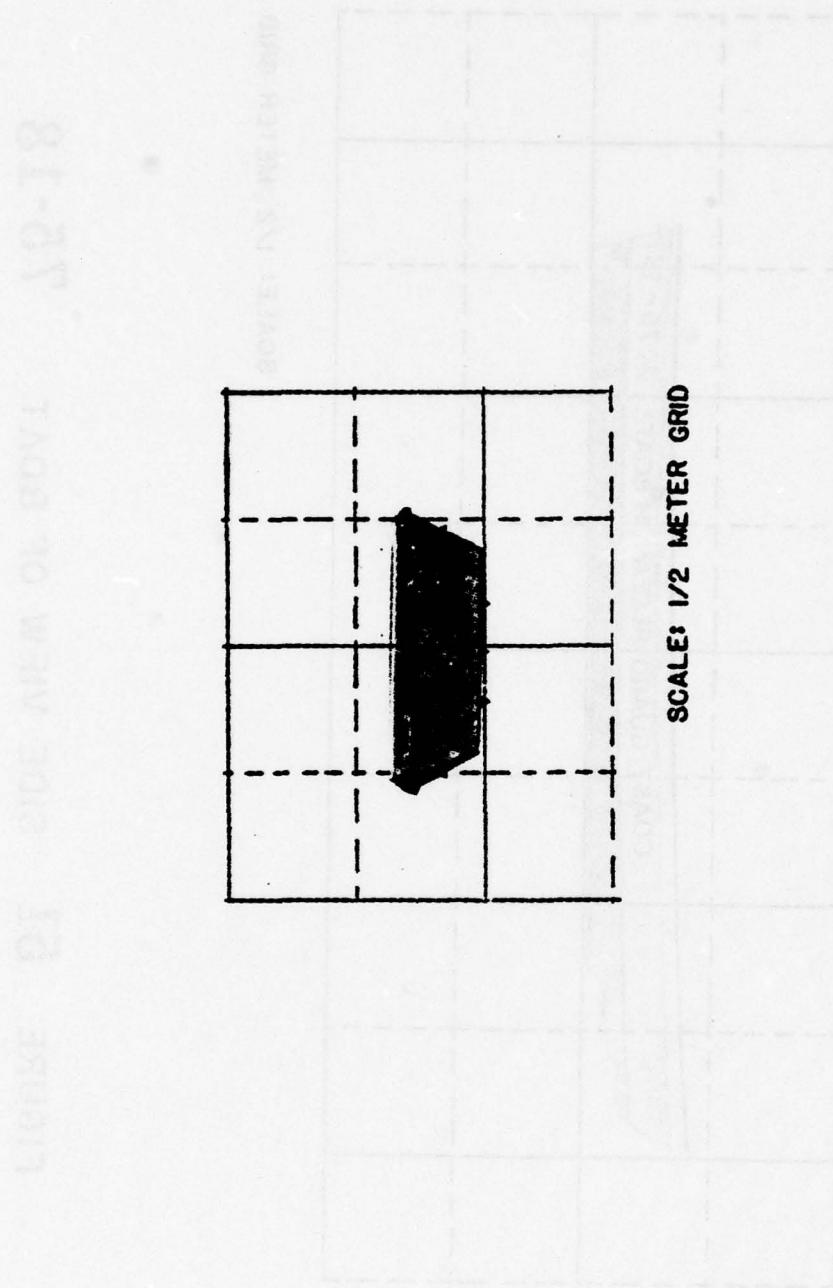
SCALE: 1/2 METER GRID

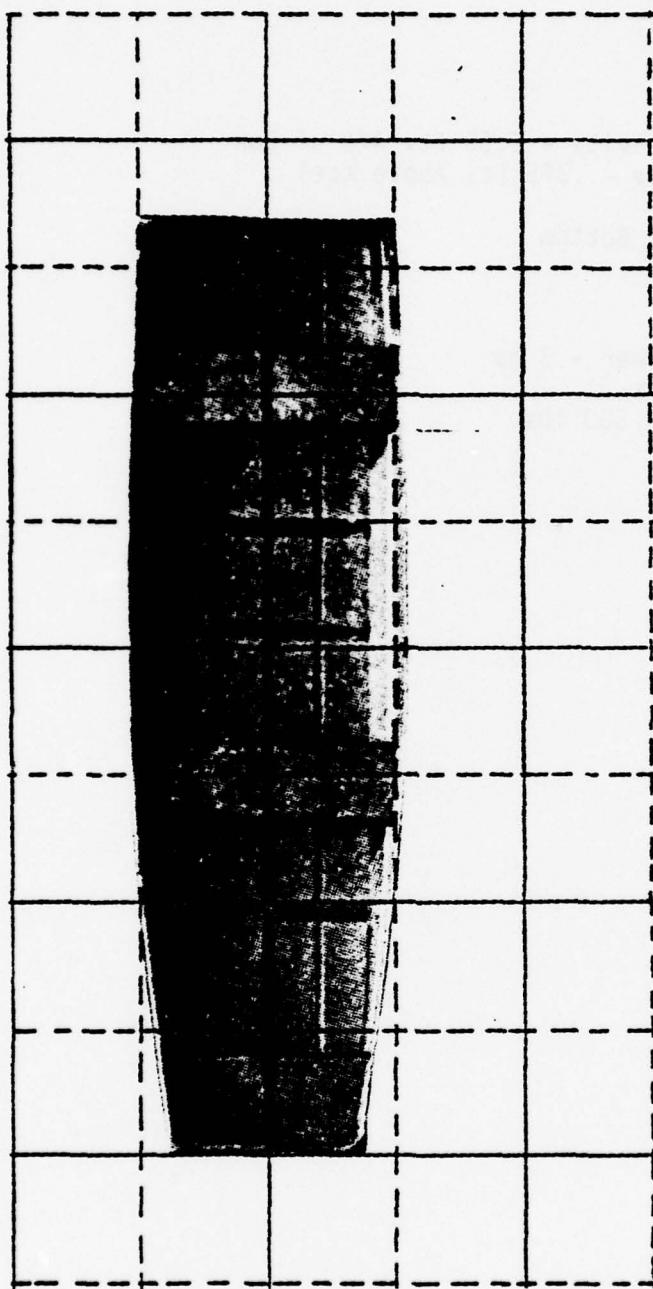




SCALE: 1/2 METER GRID

FIGURE 51 SIDE VIEW OF BOAT 75-18





SCAL: 1/2 METER GRID

FIGURE 53 TOP VIEW OF BOAT 75-18

R&DC BOAT NUMBER 75-22

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 11.82 ft.
Beam Overall - 3.41 ft.
Beam at Chine - 2.25 ft.
Weight - 64 lbs.
Longitudinal Center of Gravity - 6.55 ft. Aft of Bow
Vertical Center of Gravity - .375 ft. Above Keel
Material - Aluminum
General Hull Shape - Flat Bottom

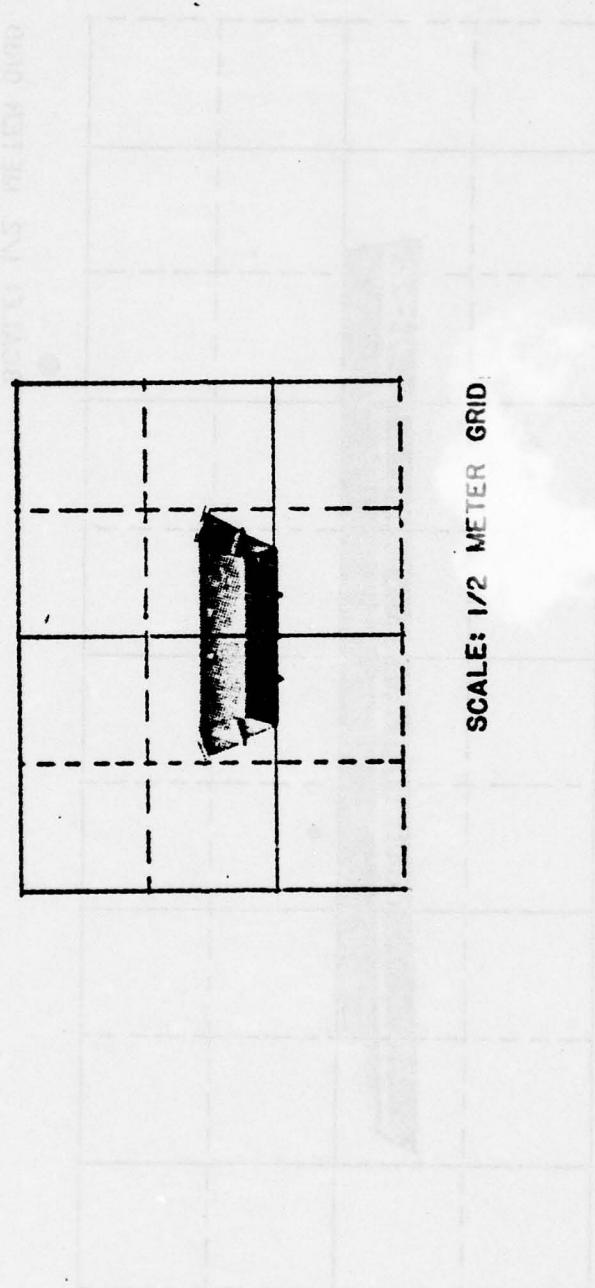
CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 3 hp
Persons Capacity - 265 lbs.
Maximum Weight Capacity - 300 lbs.

MOTORWELL INFORMATION

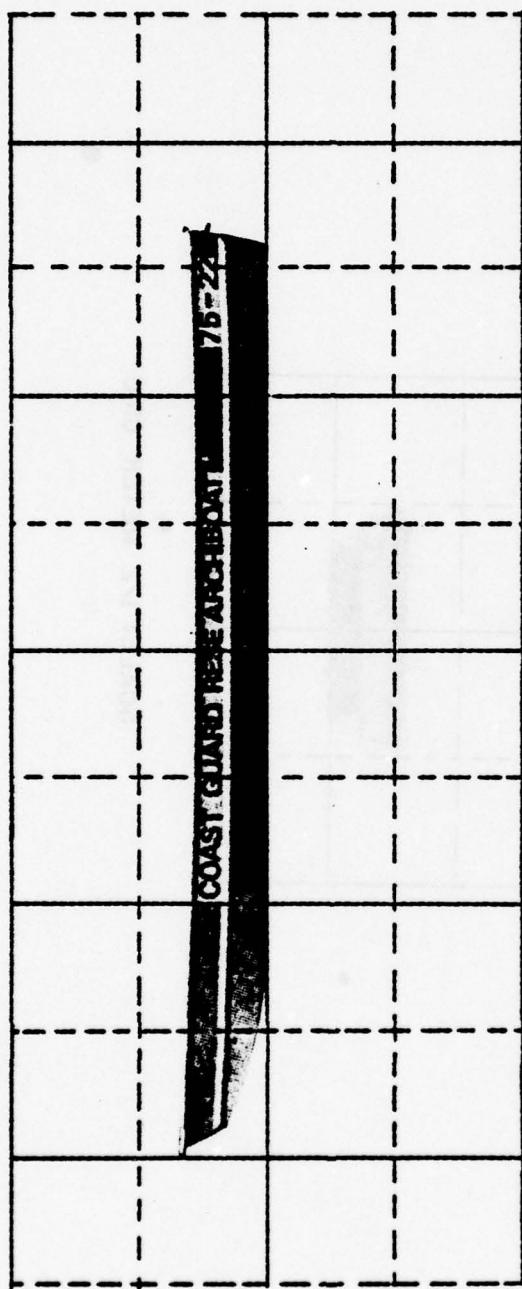
Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

54. Bow
55. Side
56. Stern
57. Top



SCALE: 1/2 METER GRID

FIGURE 54 BOW VIEW OF BOAT 75-22



SCALE: 1/2 METER GRID

FIGURE 55 SIDE VIEW OF BOAT 75-22

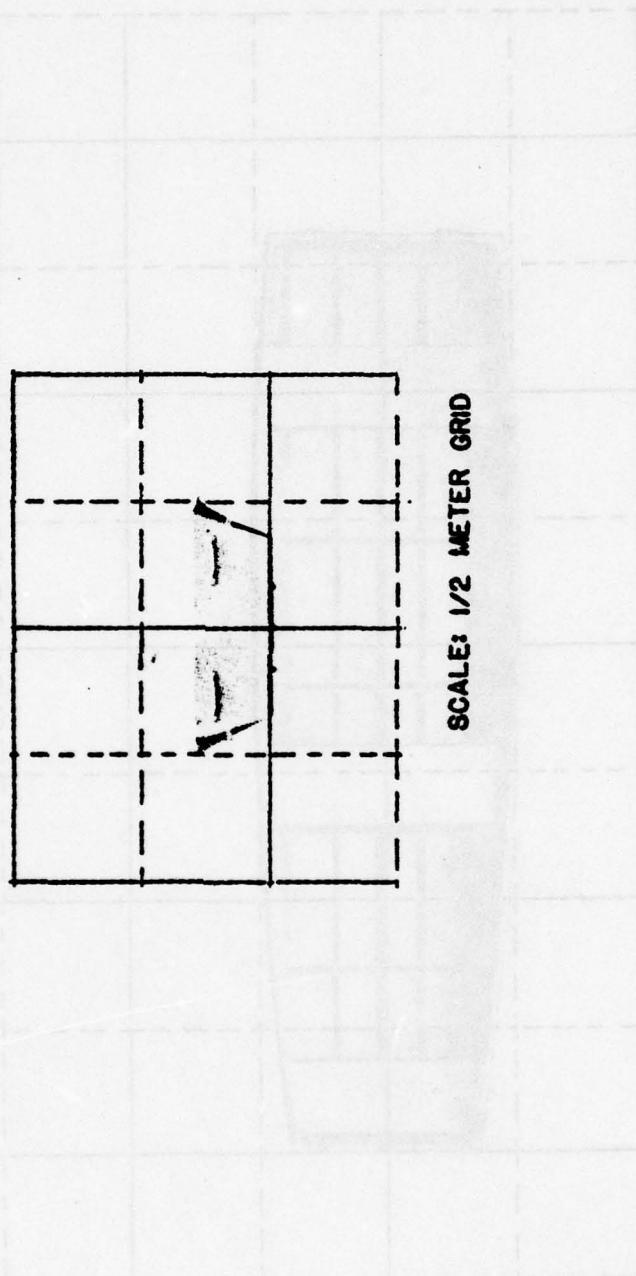
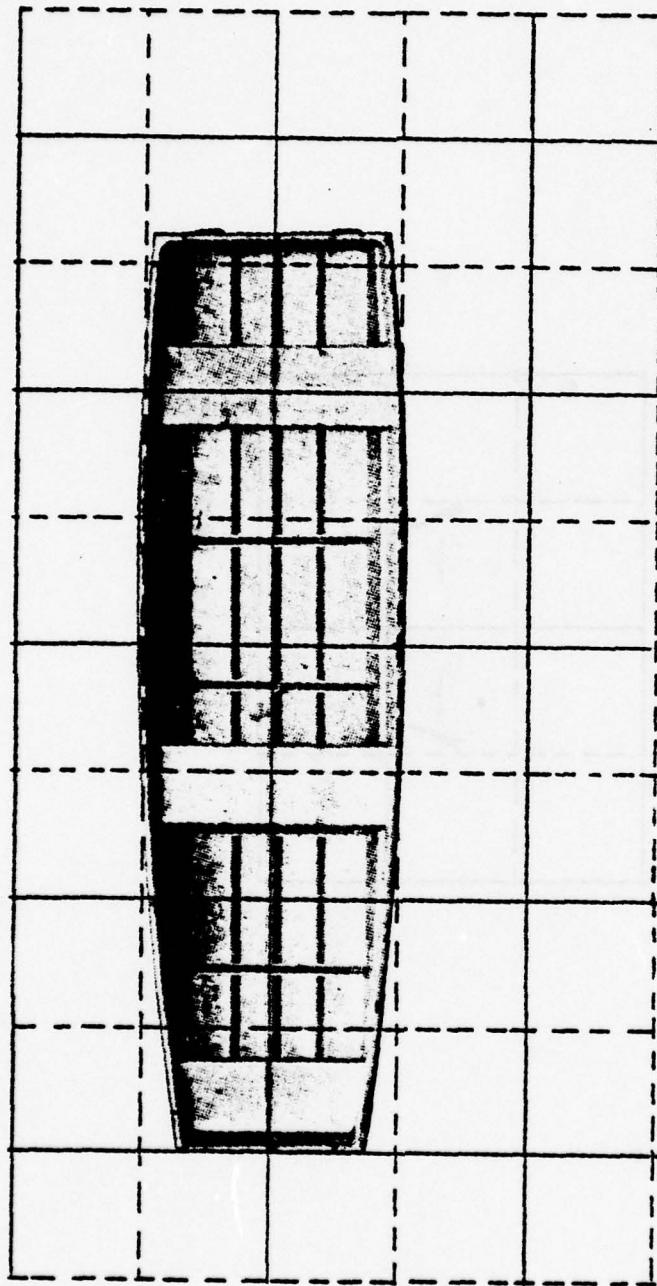


FIGURE 56 STERN VIEW OF BOAT 75-22



SCAL: 1/2 METER GRID

FIGURE 57 TOP VIEW OF BOAT 75-22

R&DC BOAT NUMBER 75-23

GENERAL INFORMATION

Boat Type - Lightweight SKiff
Length Overall - 12.02 ft.
Beam Overall - 4.76 ft.
Beam at Chine - 3.75 ft.
Weight - 142 lbs.
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Semi-Vee

CAPACITY PLATE INFORMATION

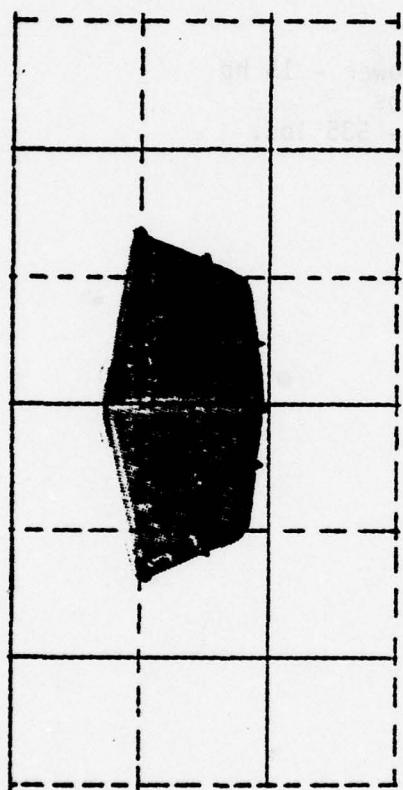
Maximum Allowable Horsepower - 15 hp
Persons Capacity - 335 lbs
Maximum Weight Capacity - 535 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

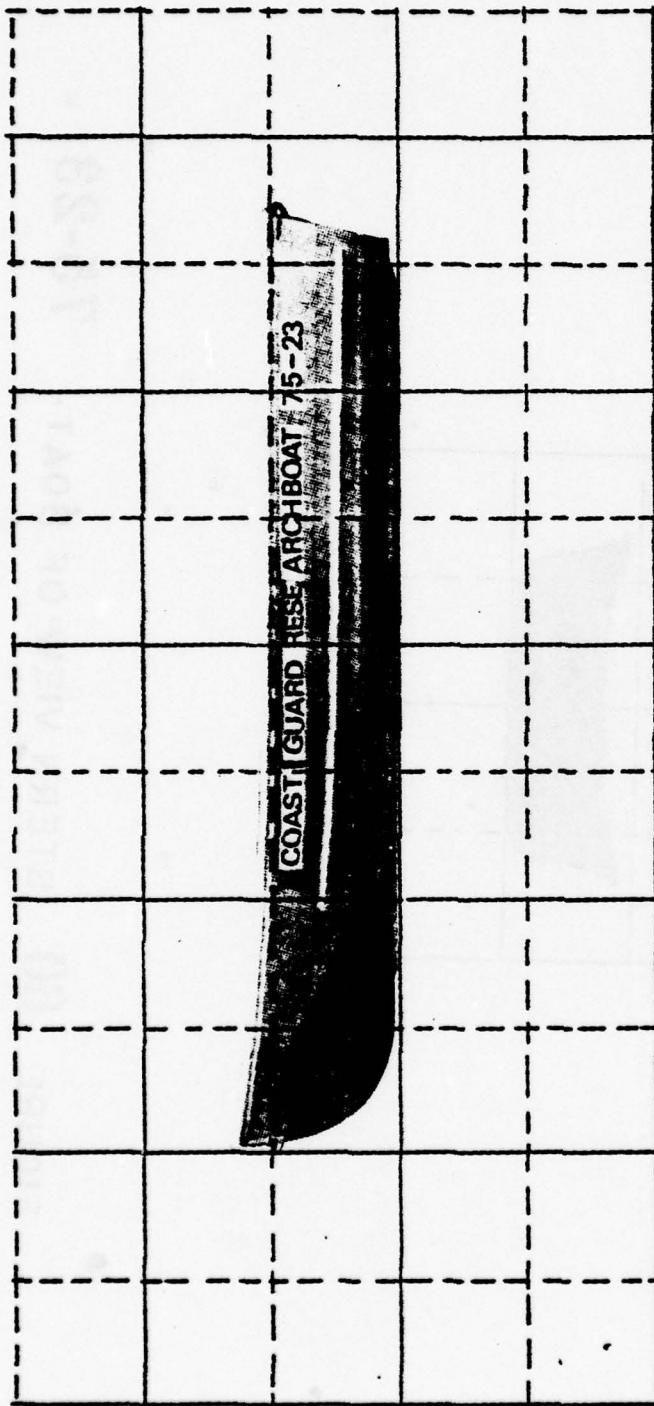
58. Bow
59. Side
60. Stern
61. Top
62. Bottom

17'6" Displacement - 600 ft. long
17'6" x 5'6" - 1950 built
17'6" x 5'4" - 1950 built
17'6" x 5'2" - 1950 built
17'6" x 5'0" - 1950 built
17'6" x 4'8" - 1950 built
17'6" x 4'6" - 1950 built
17'6" x 4'4" - 1950 built
17'6" x 4'2" - 1950 built
17'6" x 4'0" - 1950 built
17'6" x 3'8" - 1950 built
17'6" x 3'6" - 1950 built
17'6" x 3'4" - 1950 built
17'6" x 3'2" - 1950 built
17'6" x 3'0" - 1950 built
17'6" x 2'8" - 1950 built
17'6" x 2'6" - 1950 built
17'6" x 2'4" - 1950 built
17'6" x 2'2" - 1950 built
17'6" x 2'0" - 1950 built
17'6" x 1'8" - 1950 built
17'6" x 1'6" - 1950 built
17'6" x 1'4" - 1950 built
17'6" x 1'2" - 1950 built
17'6" x 1'0" - 1950 built
17'6" x 0'8" - 1950 built
17'6" x 0'6" - 1950 built
17'6" x 0'4" - 1950 built
17'6" x 0'2" - 1950 built
17'6" x 0'0" - 1950 built



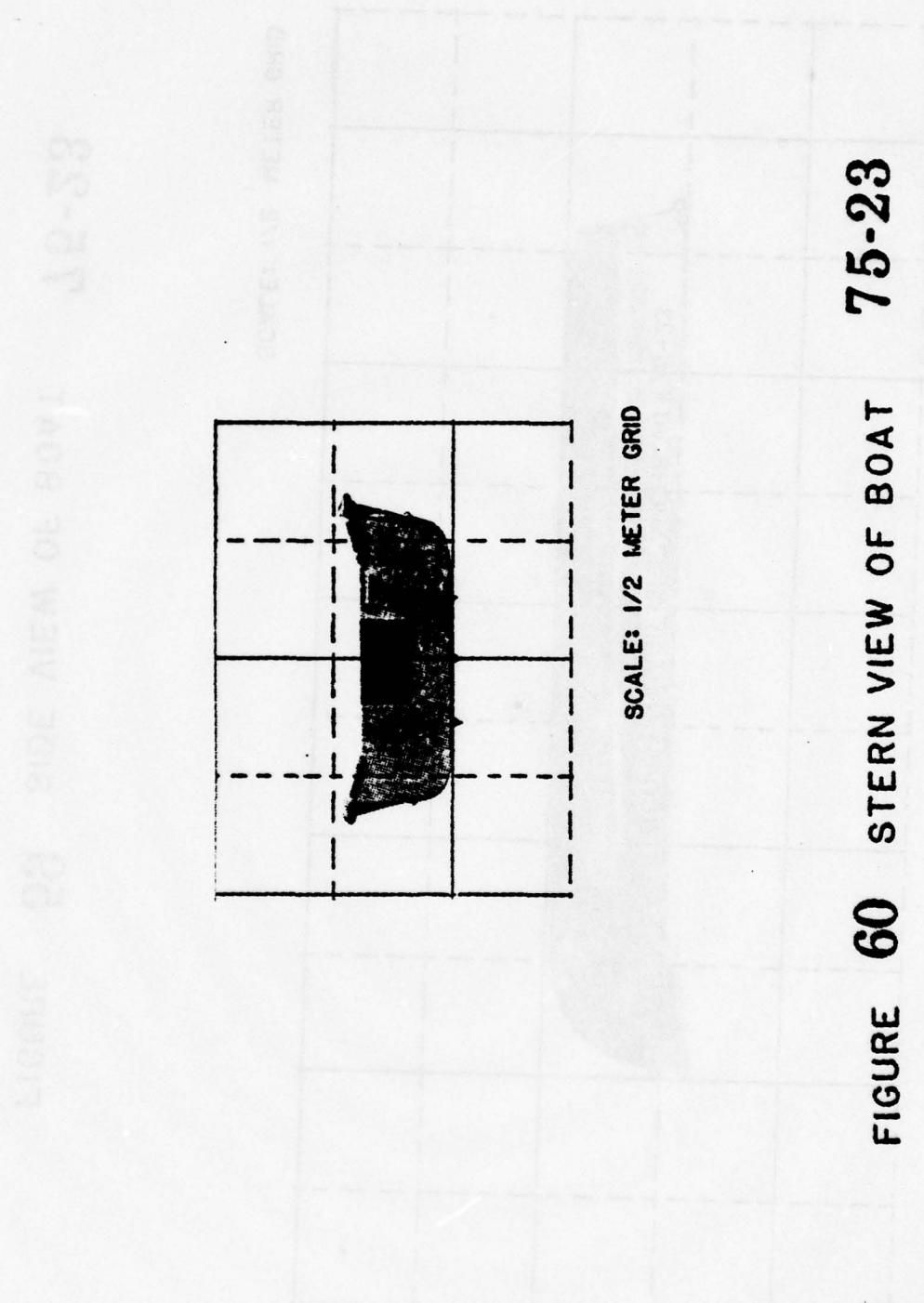
SCALE: 1/2 METER GRID

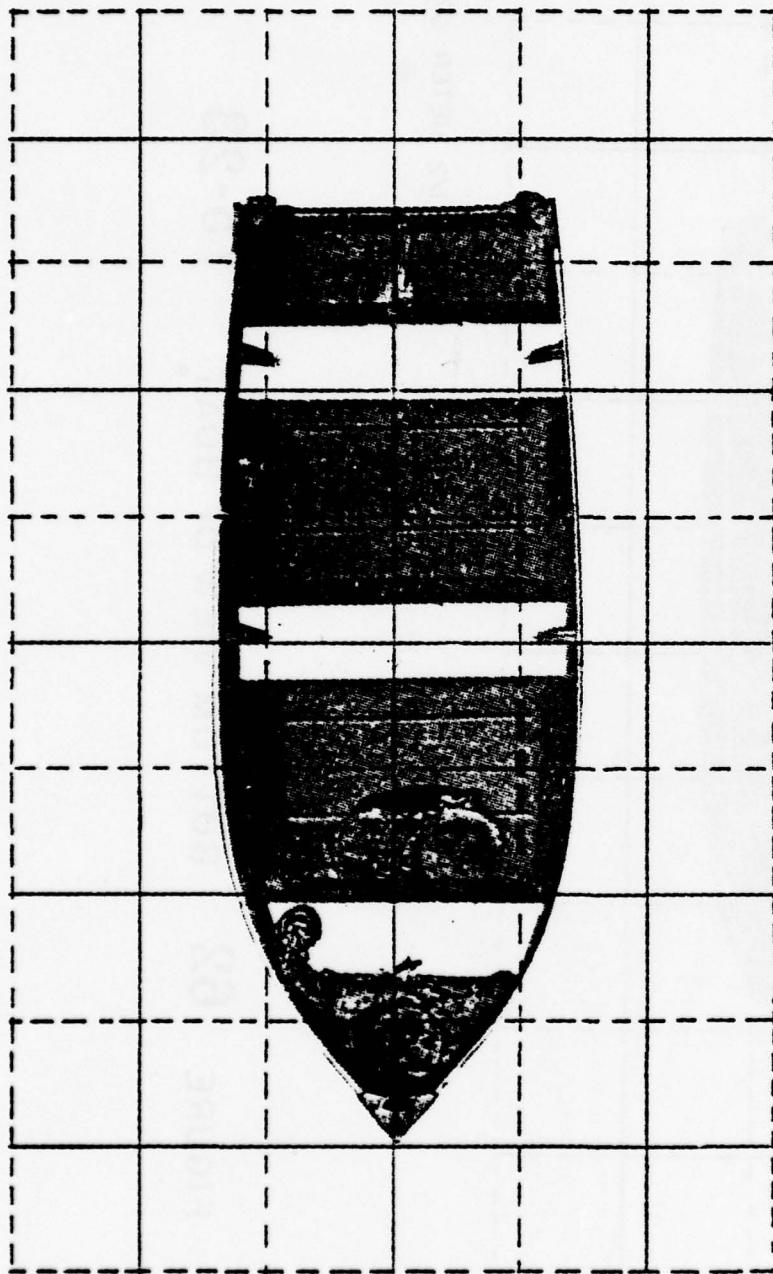
FIGURE 58 BOW VIEW OF BOAT 75-23



SCALE: 1/2 METER GRID

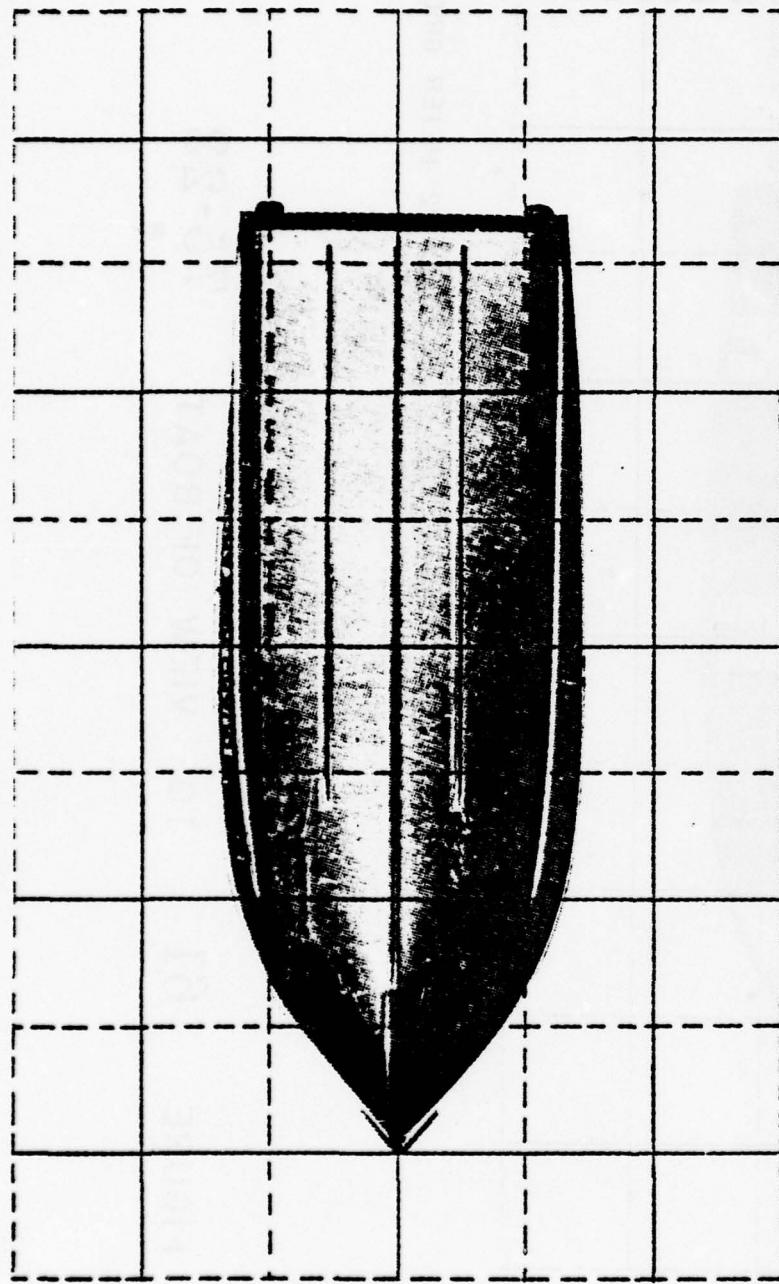
FIGURE 59 SIDE VIEW OF BOAT 75-23





SCAL: 1/2 METER GRID

FIGURE 61 TOP VIEW OF BOAT 75-23



SCALE: 1/2 METER GRID

FIGURE 62 BOTTOM VIEW OF BOAT 75-23

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 13.94 ft.
Beam Overall - 3.81 ft.
Beam at Chine - 2.65 ft.
Weight - 92 lbs.
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 335 lbs
Maximum Weight Capacity - 475 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

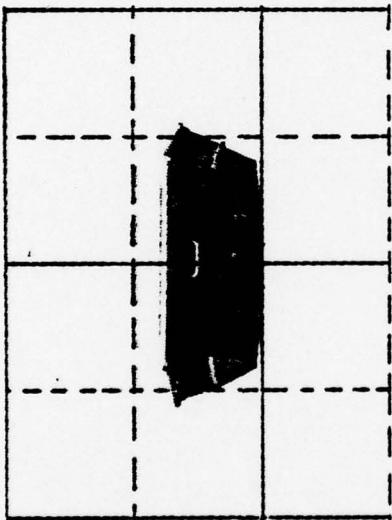
- 63. Bow
- 64. Side
- 65. Stern
- 66. Top

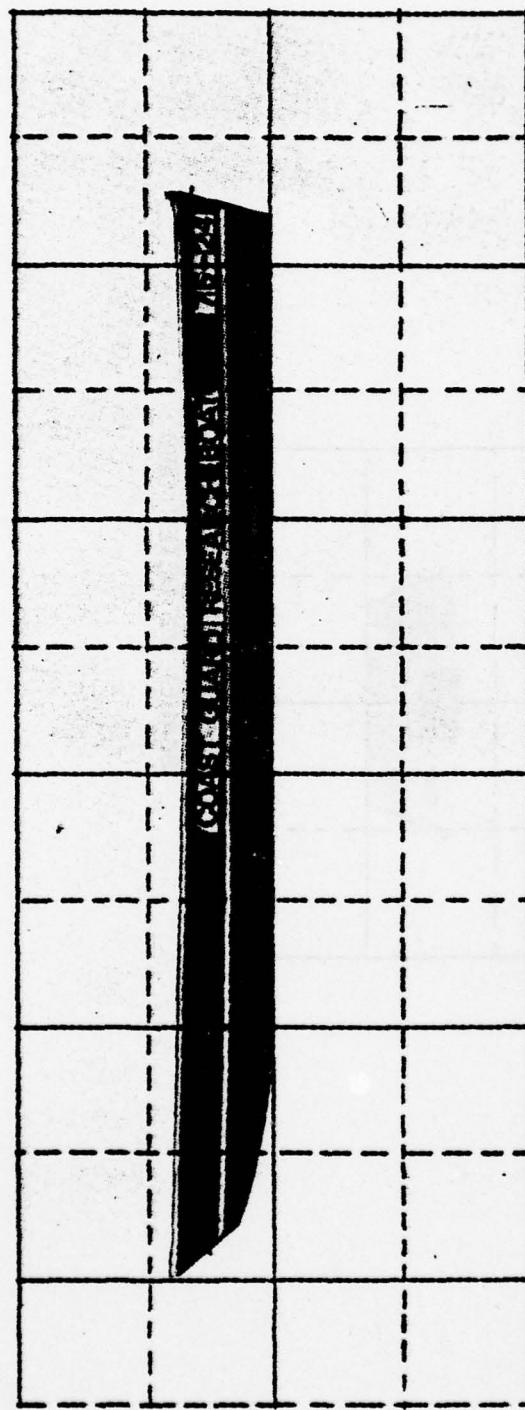
75-24

FIGURE 63 BOW VIEW OF BOAT

FIGURE

SCALE: 1/2 METER GRID





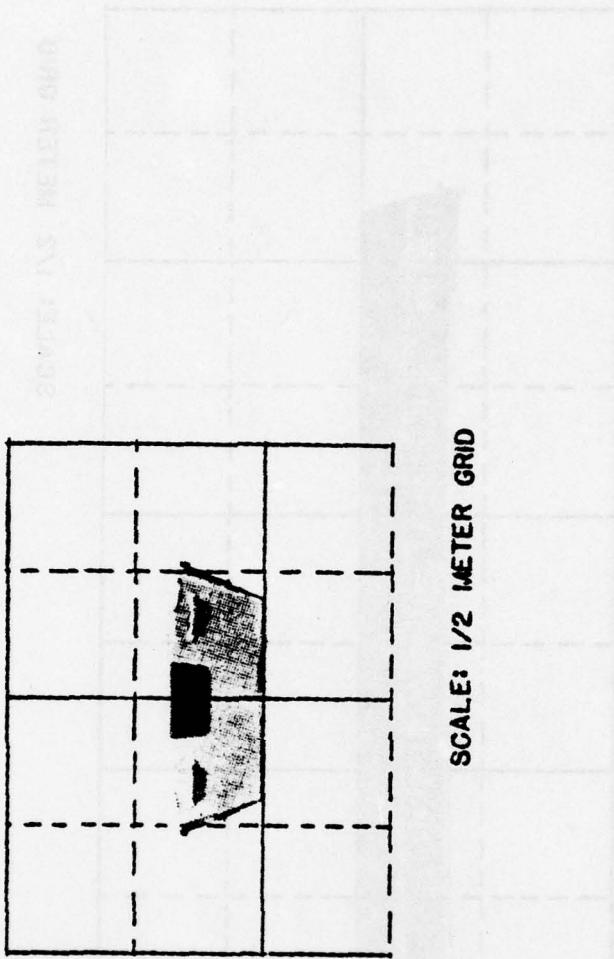
SCALE: 1/2 METER GRID

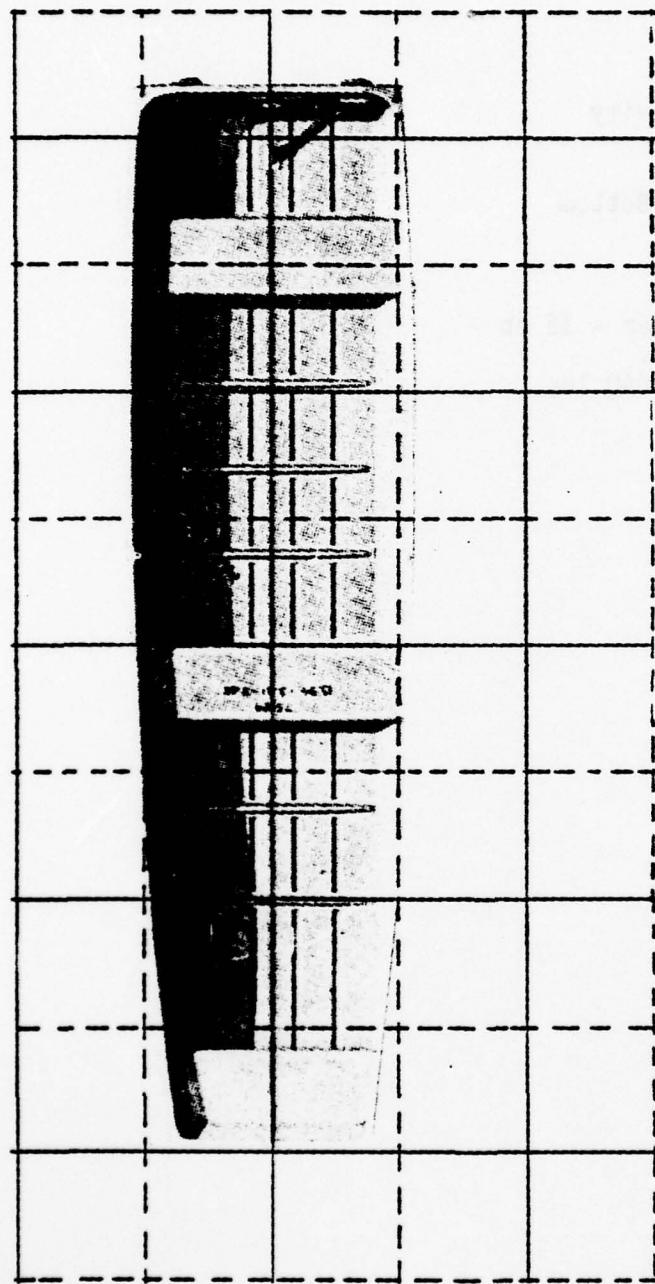
75-24
FIGURE 64 SIDE VIEW OF BOAT

75-24

FIGURE 65 STERN VIEW OF BOAT

SCALE: 1/2 METER GRID





SCAL: 1/2 METER GRID

FIGURE 66 TOP VIEW OF BOAT 75-24

R&DC BOAT NUMBER 75-25

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 13.89 ft/
Beam Overall - 4.50 ft.
Beam at Chine - 3.02 ft.
Weight - 133 lbs.
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 15 hp
Persons Capacity - 440 lbs.
Maximum Weight Capacity - 640 lbs.

MOTORWELL INFORMATION

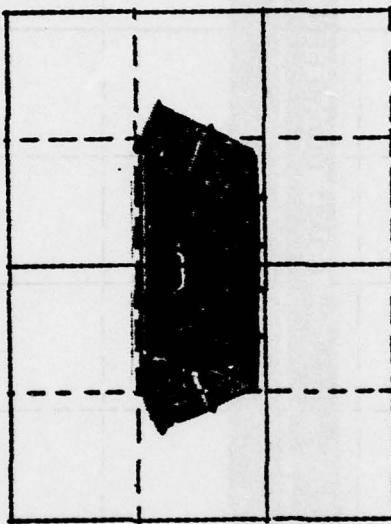
Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

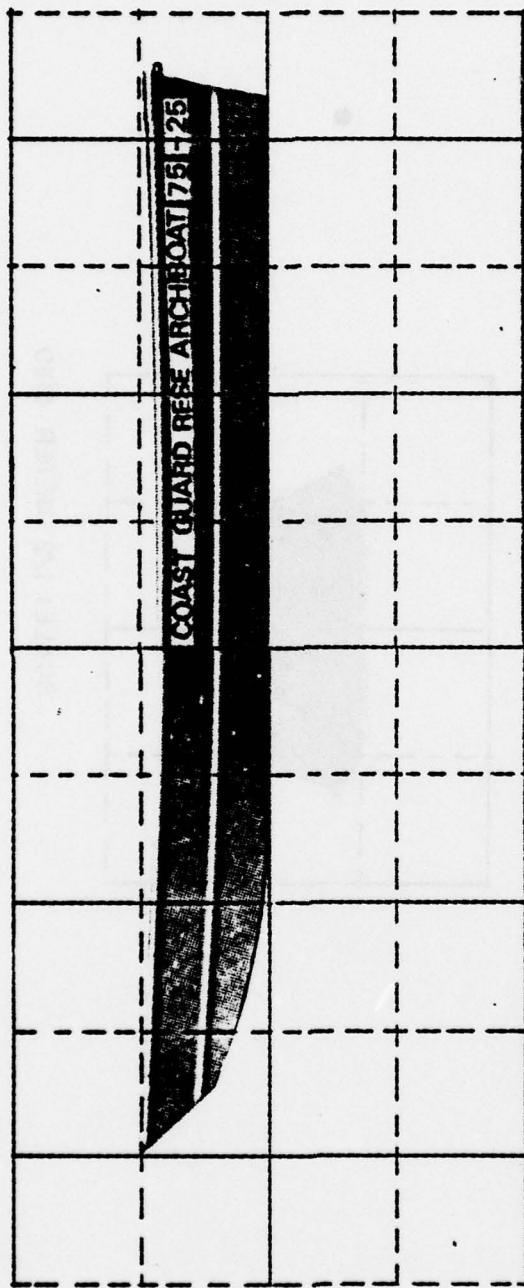
67. Bow
68. Side
69. Stern
70. Bottom

75-25

FIGURE 67 BOW VIEW OF BOAT

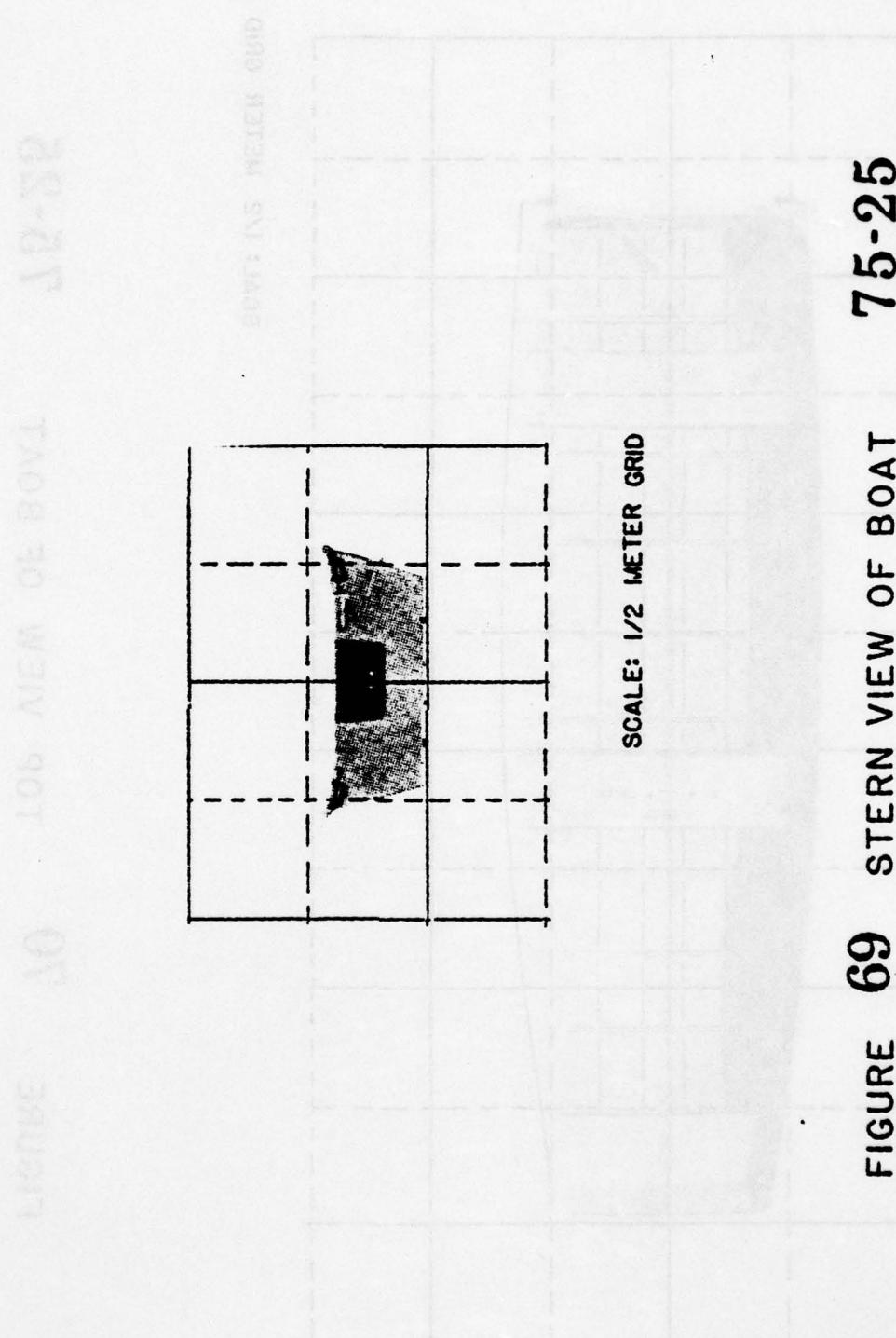
SCALE: 1/2 METER GRID

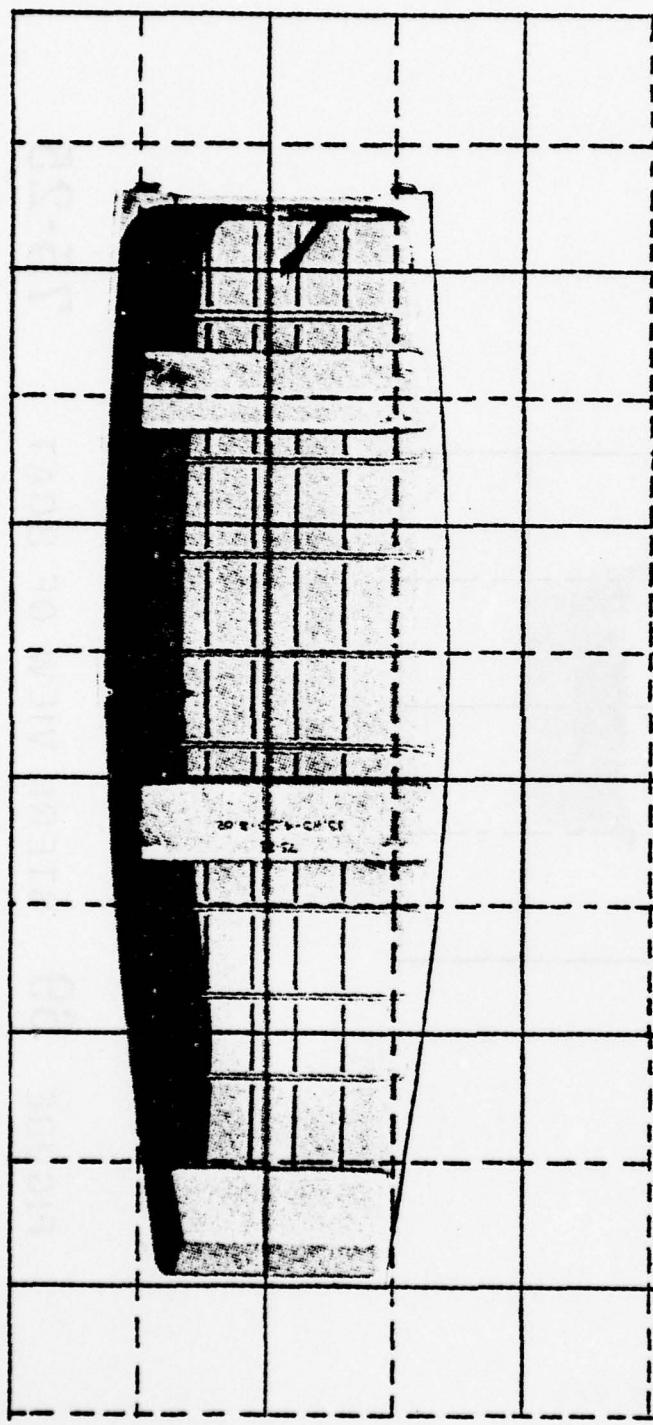




SCALE: 1/2 METER GRID

FIGURE 68 SIDE VIEW OF BOAT 75-25





SCAL: 1/2 METER GRID

FIGURE 70 TOP VIEW OF BOAT 75-25

R&DC BOAT NUMBER 75-26

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 11.90 ft.
Beam Overall - 4.40 ft.
Beam at Chine - 3.00 ft.
Weight - 120 lbs.
Longitudinal Center of Gravity - 6.75 ft.
Vertical Center of Gravity - .556 ft.
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 360 lbs.
Maximum Weight Capacity - 500 lbs.

MOTORWELL INFORMATION

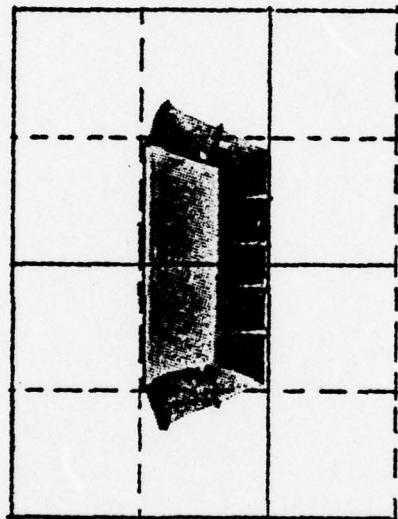
Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

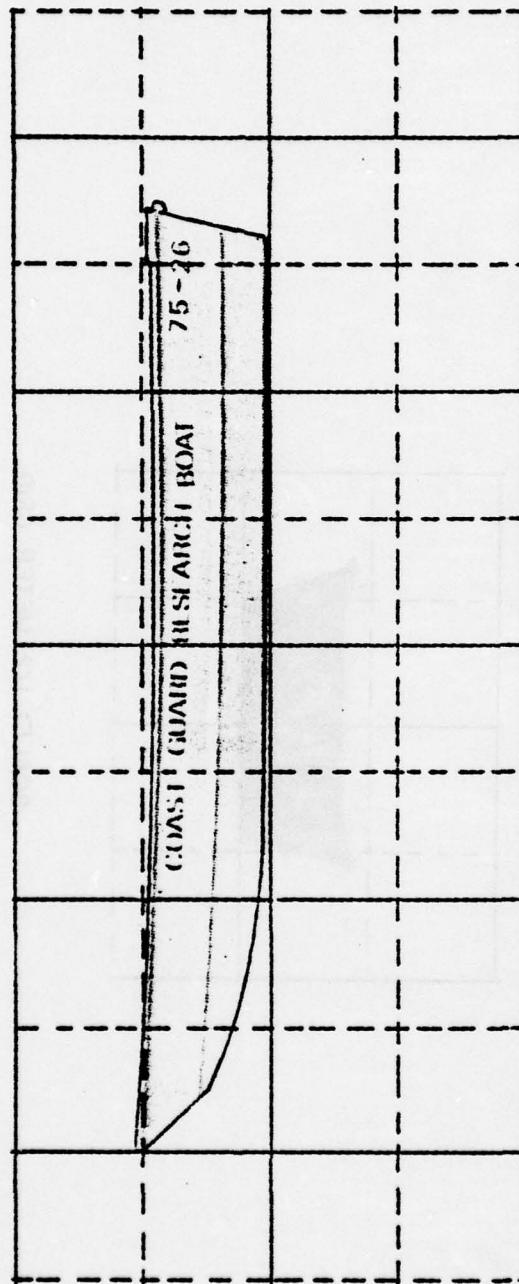
- 71. Bow
- 72. Side
- 73. Stern
- 74. Top

75-26

FIGURE 71 BOW VIEW OF BOAT

SCALE: 1/2 METER GRID

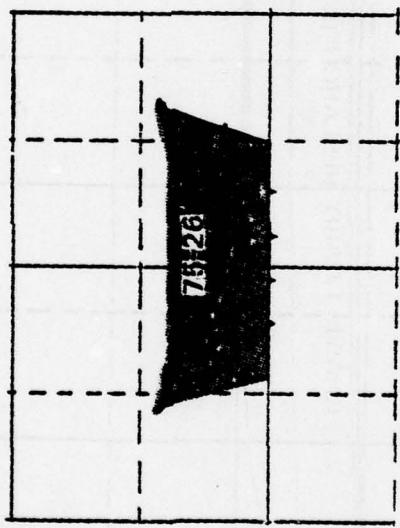




SCALE: 1/2 METER GRID

FIGURE 72 SIDE VIEW OF BOAT 75-26

FIGURE 73 STERN VIEW OF BOAT 75-26



SCALE: 1/2 METER GRID

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USCG R AND D CENTER RECREATIONAL BOATING SAFETY TEST BOAT DOCUMENT--ETC(U)
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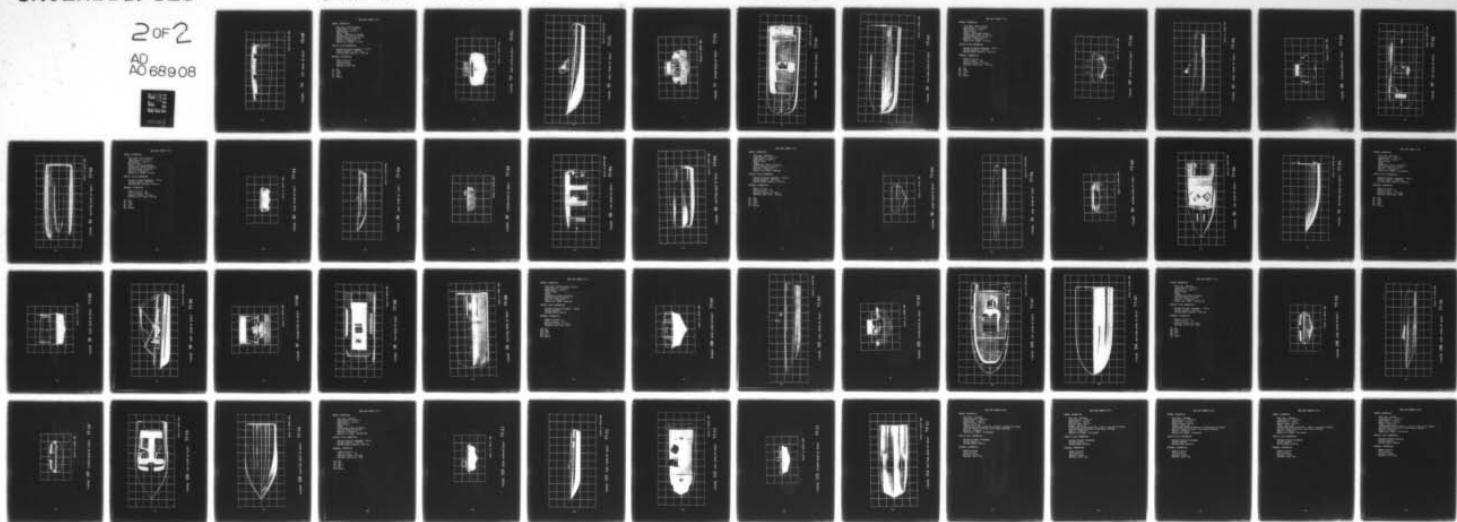
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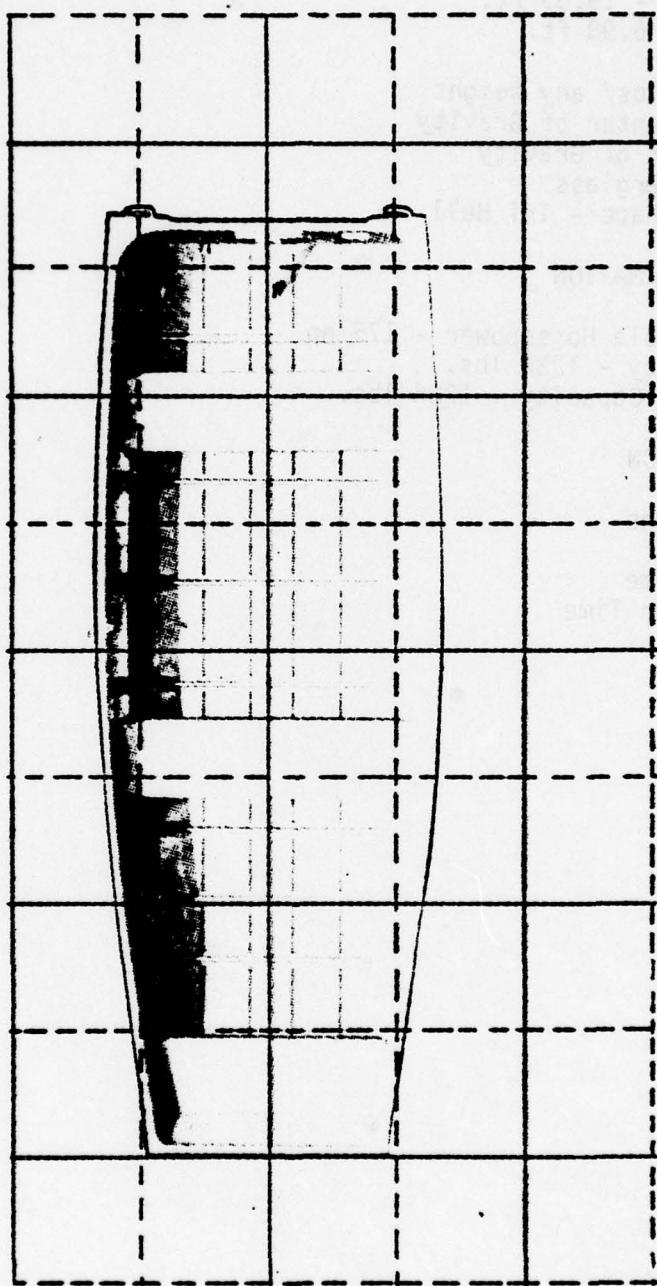
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DATE
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75-26

74 TOP VIEW OF BOAT

SCAL: 1/2 METER GRID



R&DC BOAT NUMBER 77-01

GENERAL INFORMATION

Boat Type - Center Console
Length Overall - 19.09 ft.
Beam Overall - 6.98 ft.
Beam at Chine
Weight - 1500 lbs/ any weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Tri Hull

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 175 hp
Persons Capacity - 1286 lbs.
Maximum Weight Capacity - 1286 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

- 75. Bow
- 76. Side
- 77. Stern
- 78. Top
- 79. Bottom

77-01

FIGURE 75 BOW VIEW OF BOAT

95

SCALE: 1/2 METER GRID

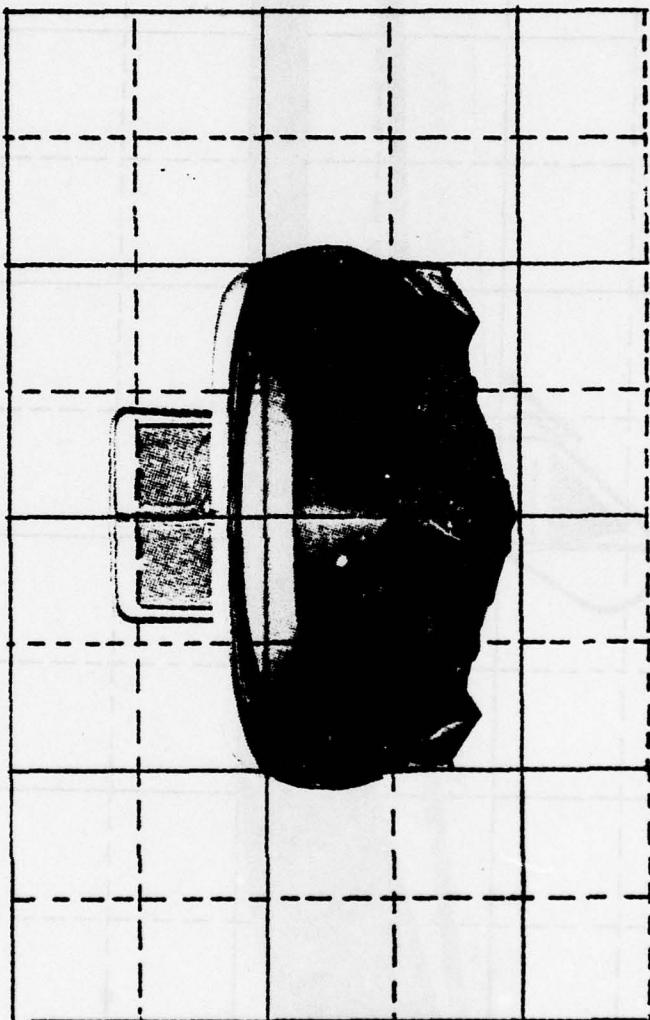
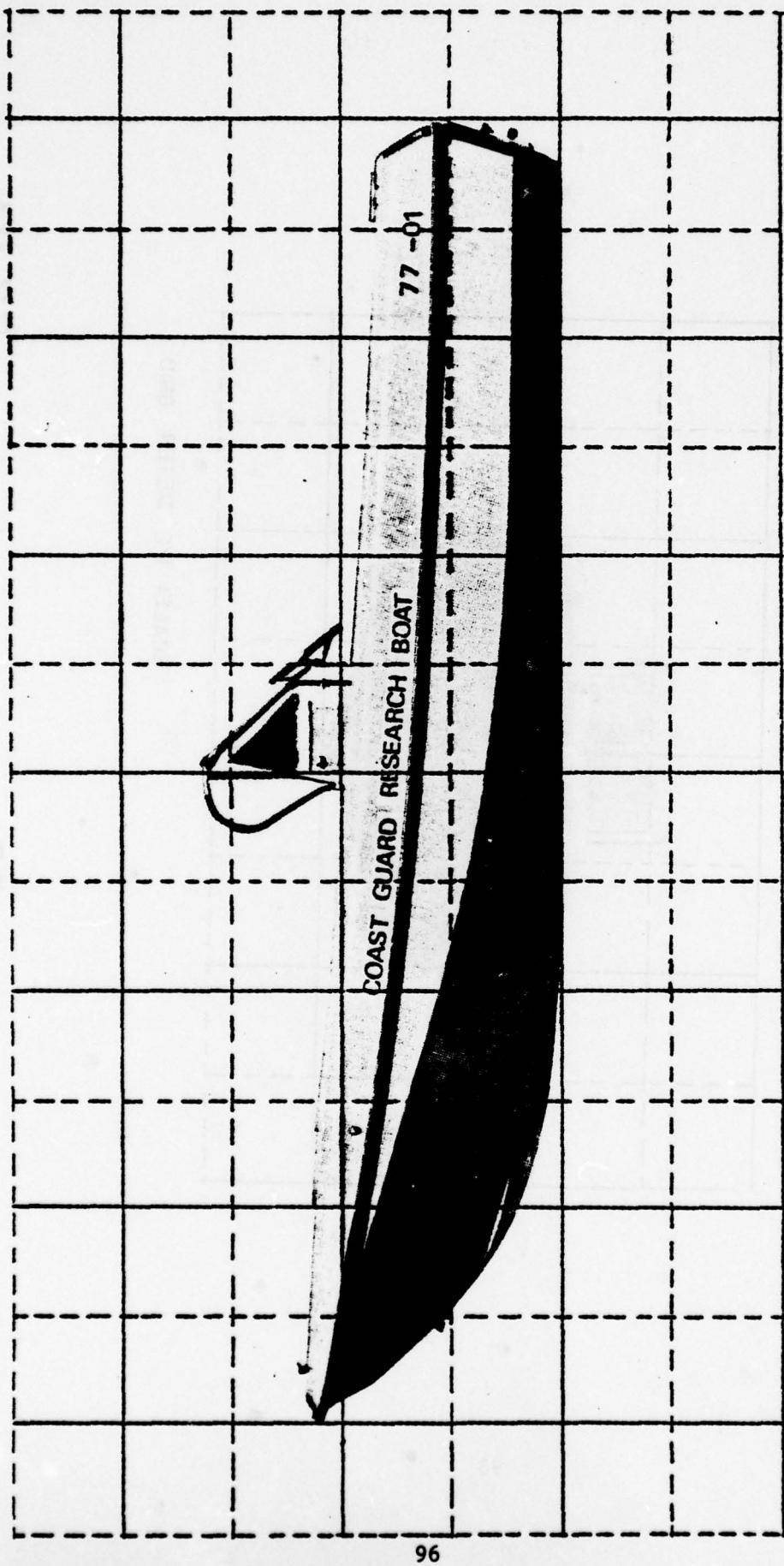


FIGURE 75 BOW VIEW OF BOAT
77-01



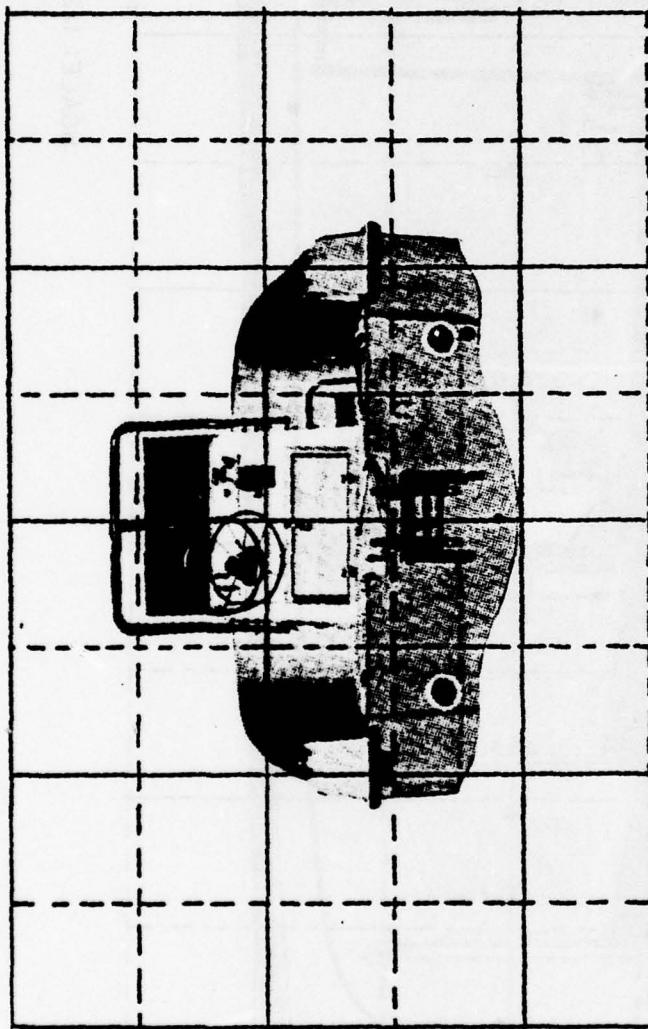
SCALE: 1/2 METER GRID

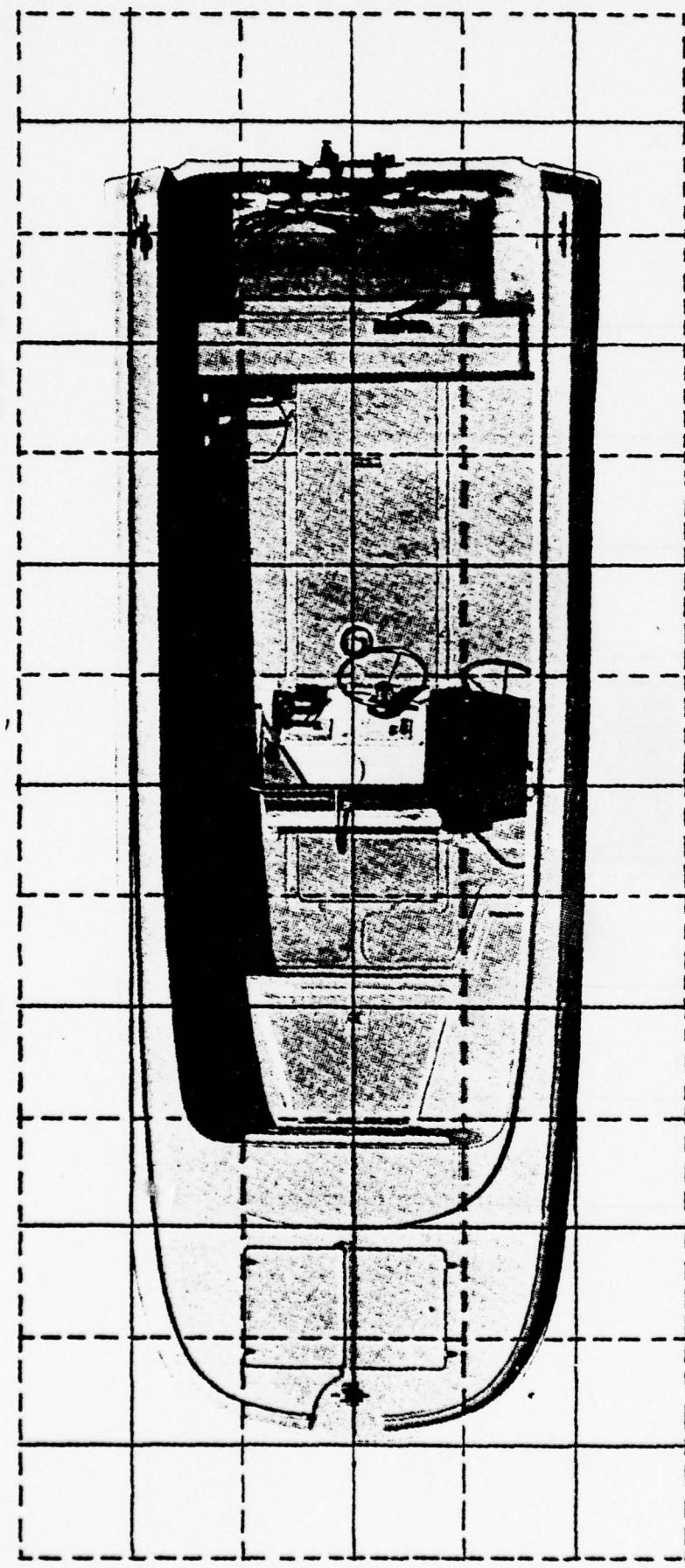
FIGURE 76 SIDE VIEW OF BOAT 77-01

77-01

FIGURE 77 STERN VIEW OF BOAT

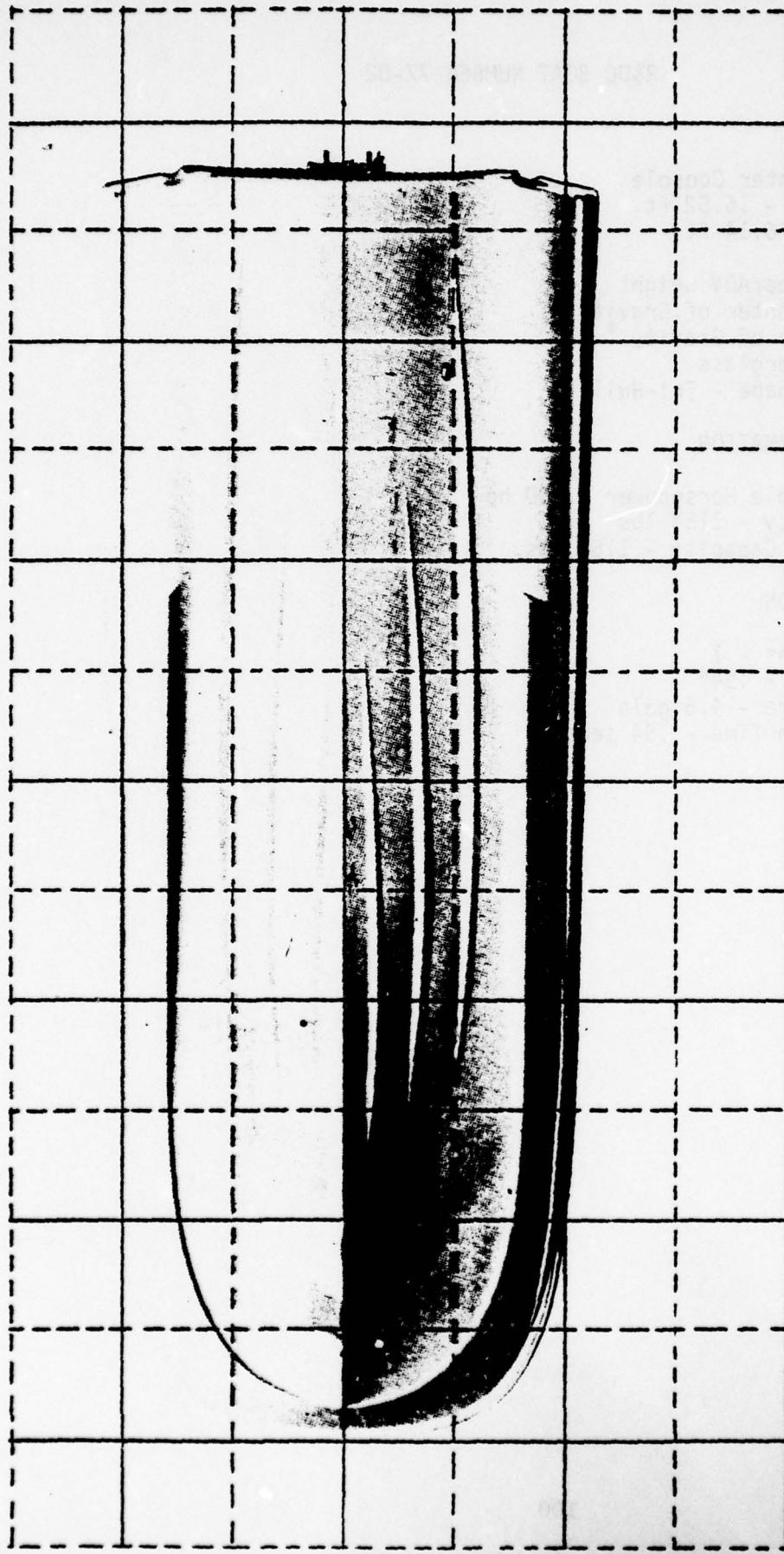
SCALE: 1/2 METER GRID





SCALE: 1/2 METER GRID

FIGURE 78 TOP VIEW OF BOAT 77-01



SCALE: 1/2 METER GRID

FIGURE 79 BOTTOM VIEW OF BOAT 77-01

R&DC BOAT NUMBER 77-02

GENERAL INFORMATION

Boat Type - Center Console
Length Overall - 16.52 ft.
Beam Overall - 6.14 ft.
Beam at Chine
Weight - 900 lbs/ADV weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Tri-Hull

CAPACITY PLATE INFORMATION

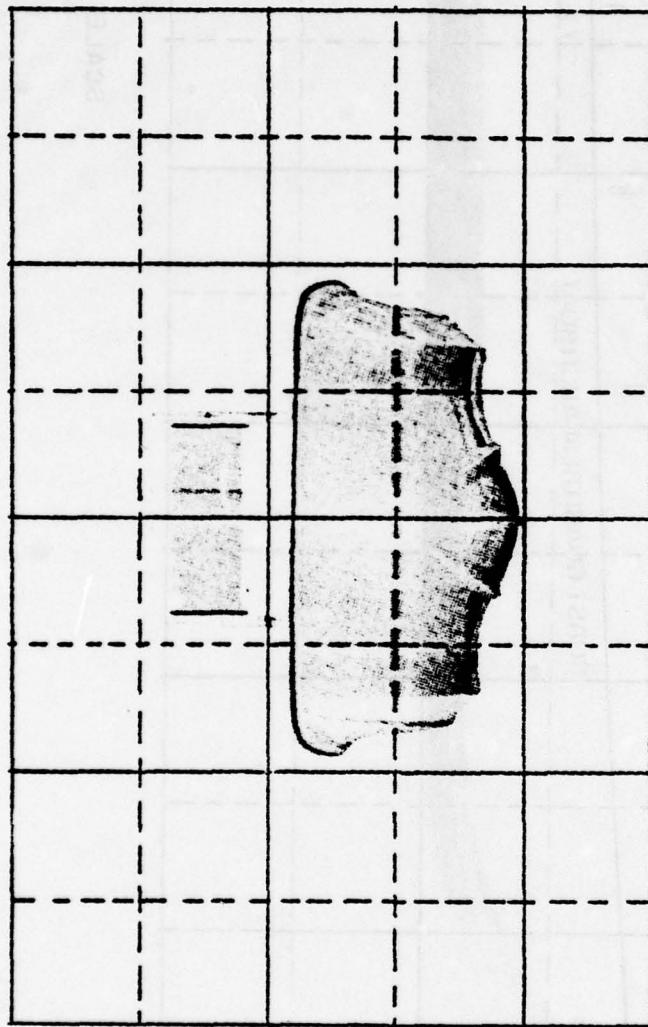
Maximum Allowable Horsepower - 100 hp
Persons Capacity - 1154 lbs
Maximum Weight Capacity - 1154 lbs.

MOTORWELL INFORMATION

Number of Drains - 1
Size of Drains - .94"
Motorwell Volume - 4.6 gals
Motorwell Drain Time - .54 secs

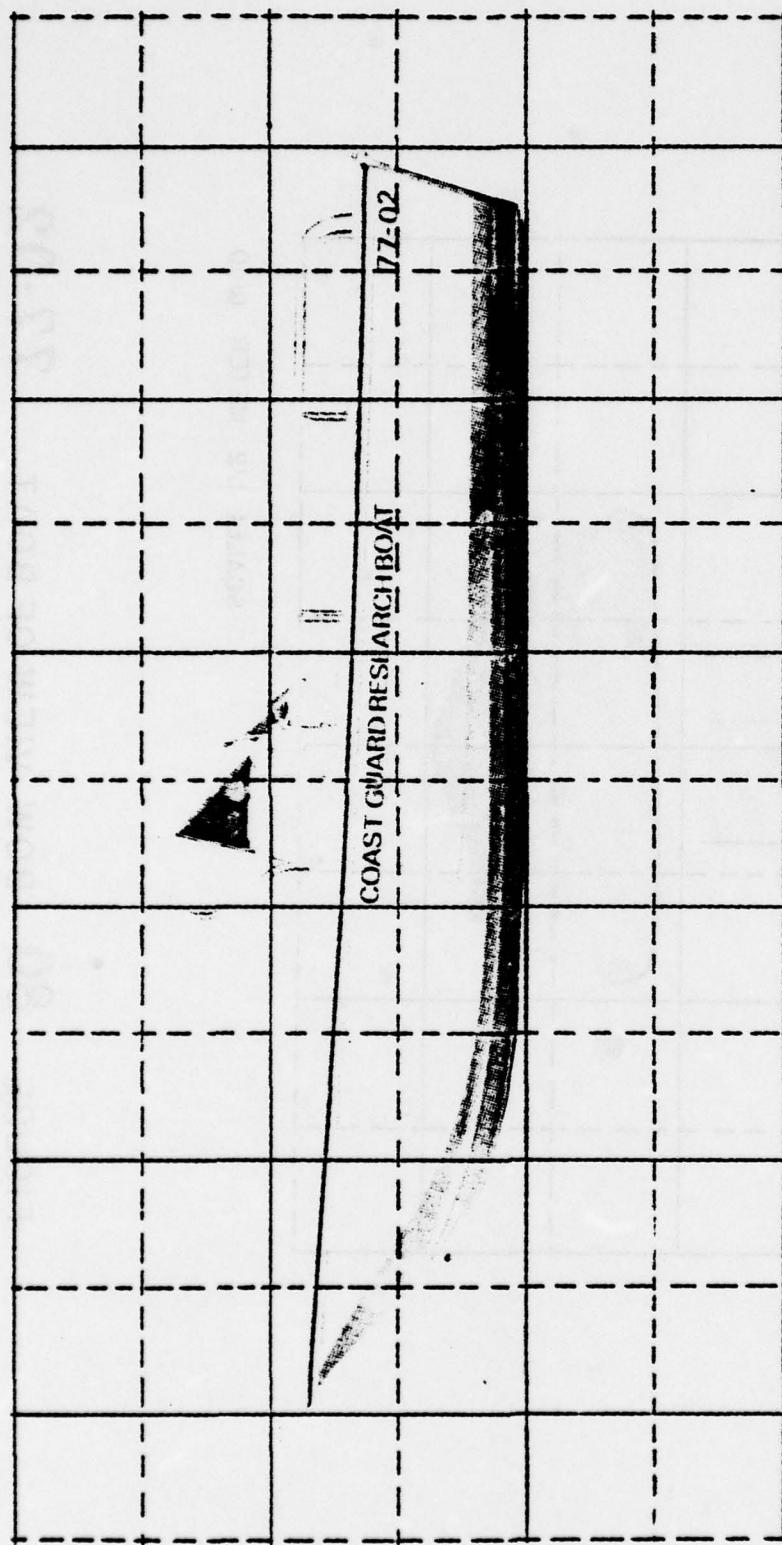
80. Bow
81. Side
82. Stern
83. Top
84. Bottom

FIGURE 80 BOW VIEW OF BOAT



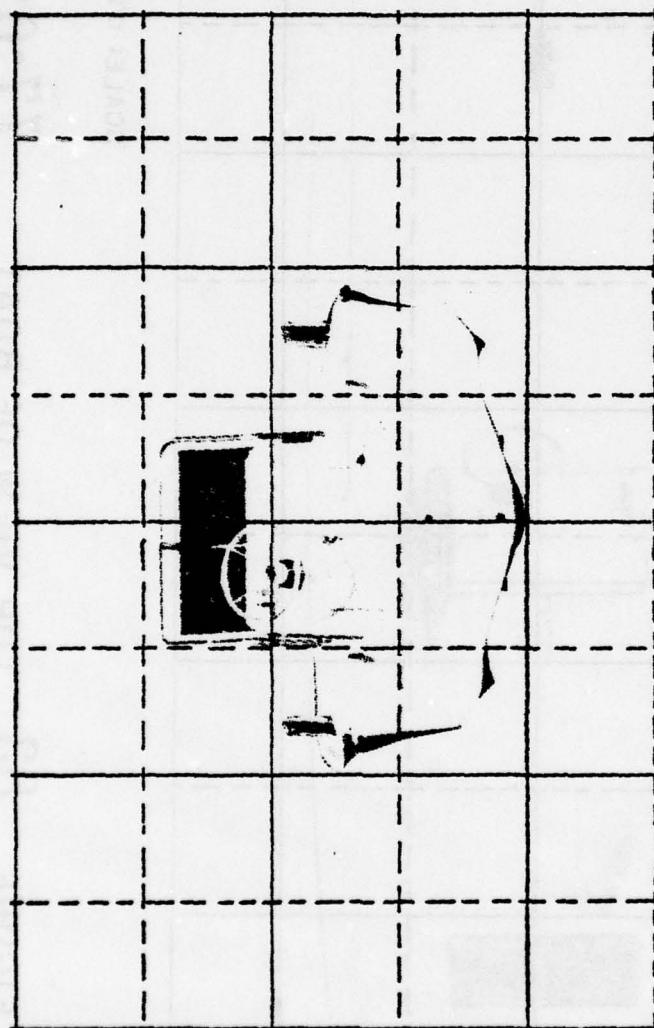
SCALE: 1/2 METER GRID

FIGURE 80 BOW VIEW OF BOAT 77-02



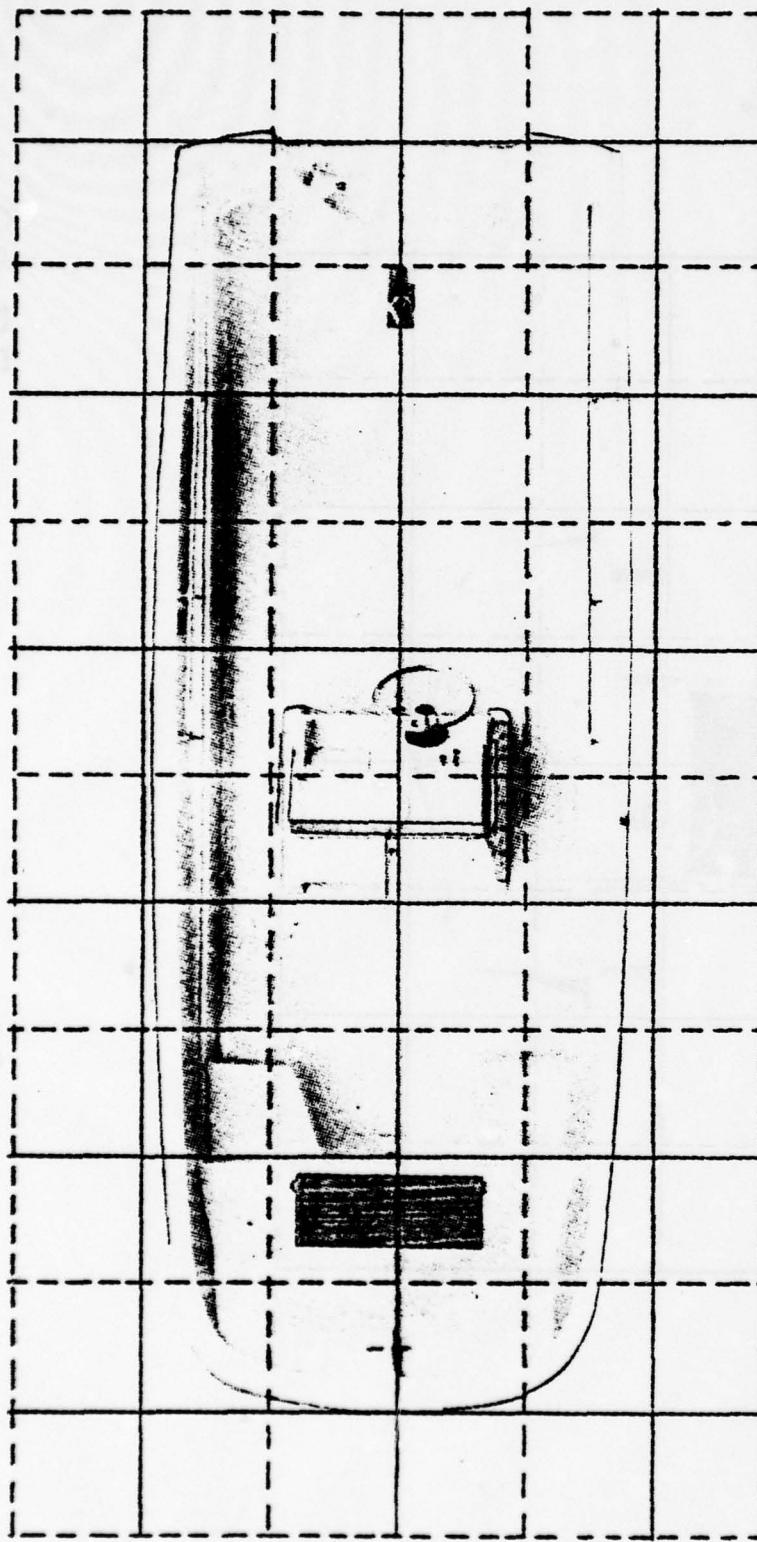
SCALE: 1/2 METER GRID

FIGURE 81 SIDE VIEW OF BOAT 77-02



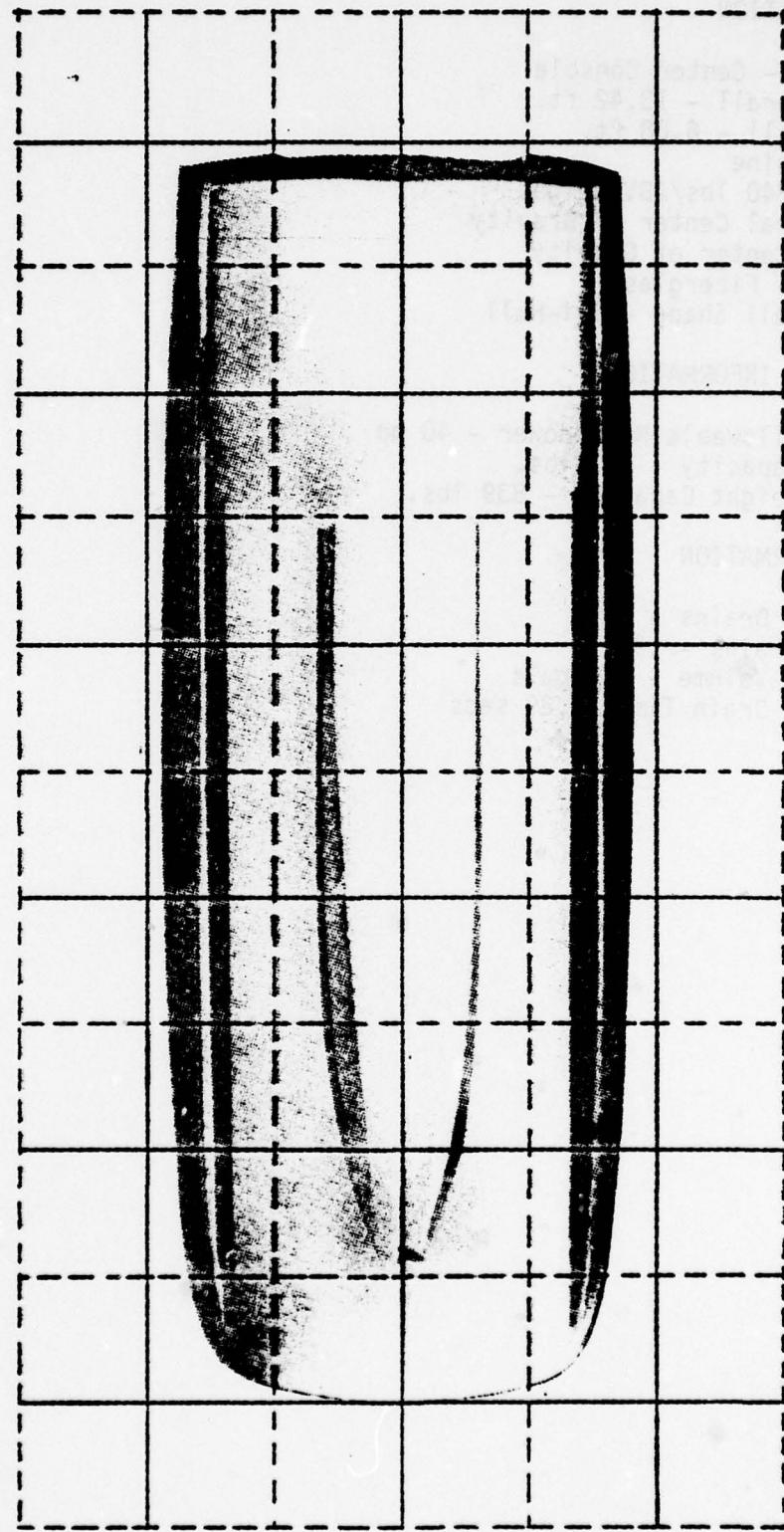
SCALE: 1/2 METER GRID

FIGURE 82 STERN VIEW OF BOAT 77-02



SCALE: 1/2 METER GRID

FIGURE 83 TOP VIEW OF BOAT 77-02



SCALE: 1/2 METER GRID

FIGURE 84 BOTTOM VIEW OF BOAT 77-02

R&DC BOAT NUMBER 77-04

GENERAL INFORMATION

Boat Type - Center Console
Length Overall - 13.42 ft.
Beam Overall - 6.08 ft.
Beam at Chine
Weight - 340 lbs/ADV Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Tri-Hull

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 40 hp
Persons Capacity - 827 lbs.
Maximum Weight Capacity - 839 lbs.

MOTORWELL INFORMATION

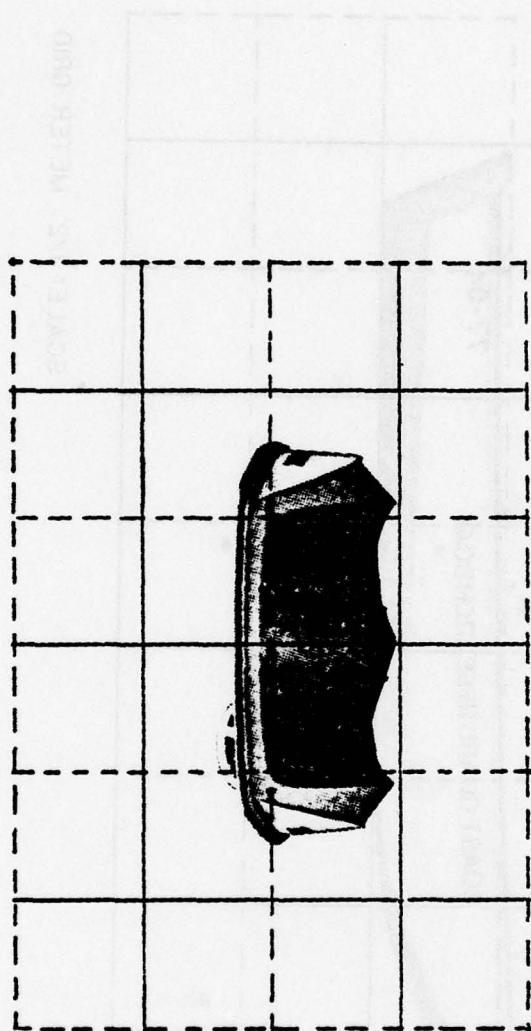
Number of Drains - 1
Size of Drains - .94"
Motorwell Volume - 4.6 gals
Motorwell Drain Time - .29 secs

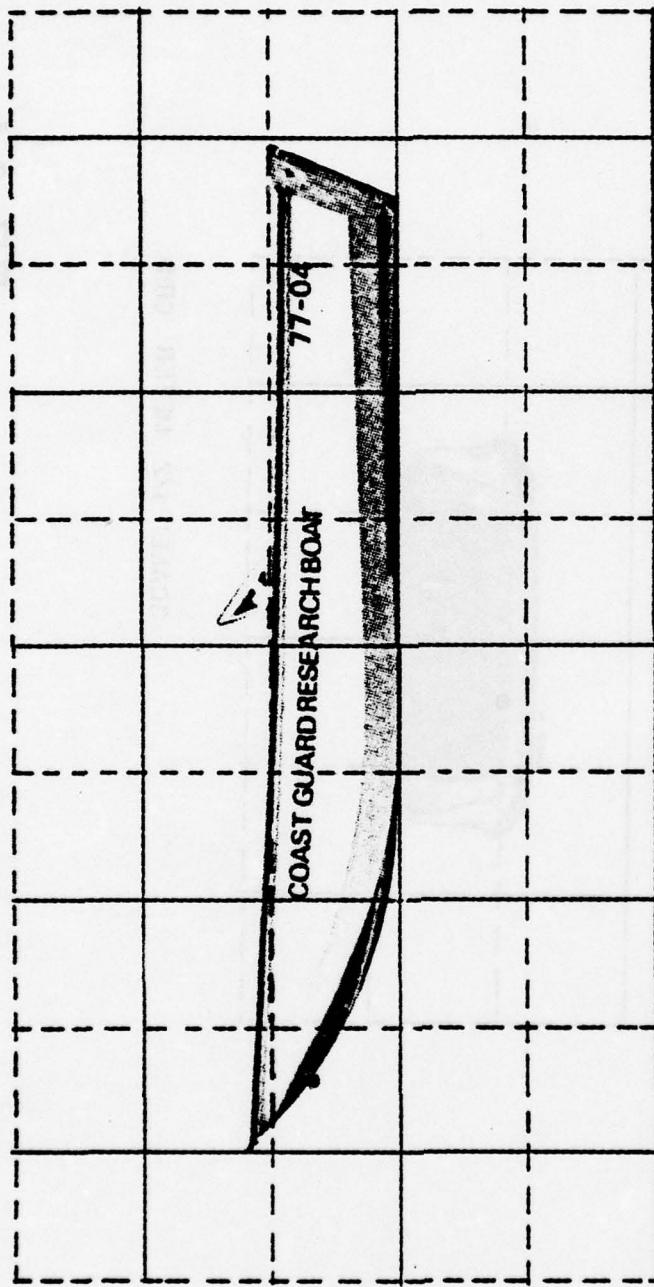
- 85. Bow
- 86. Side
- 87. Stern
- 88. Top
- 89. Bottom

77-04

FIGURE 85 BOW VIEW OF BOAT

SCALE: 1/2 METER GRID

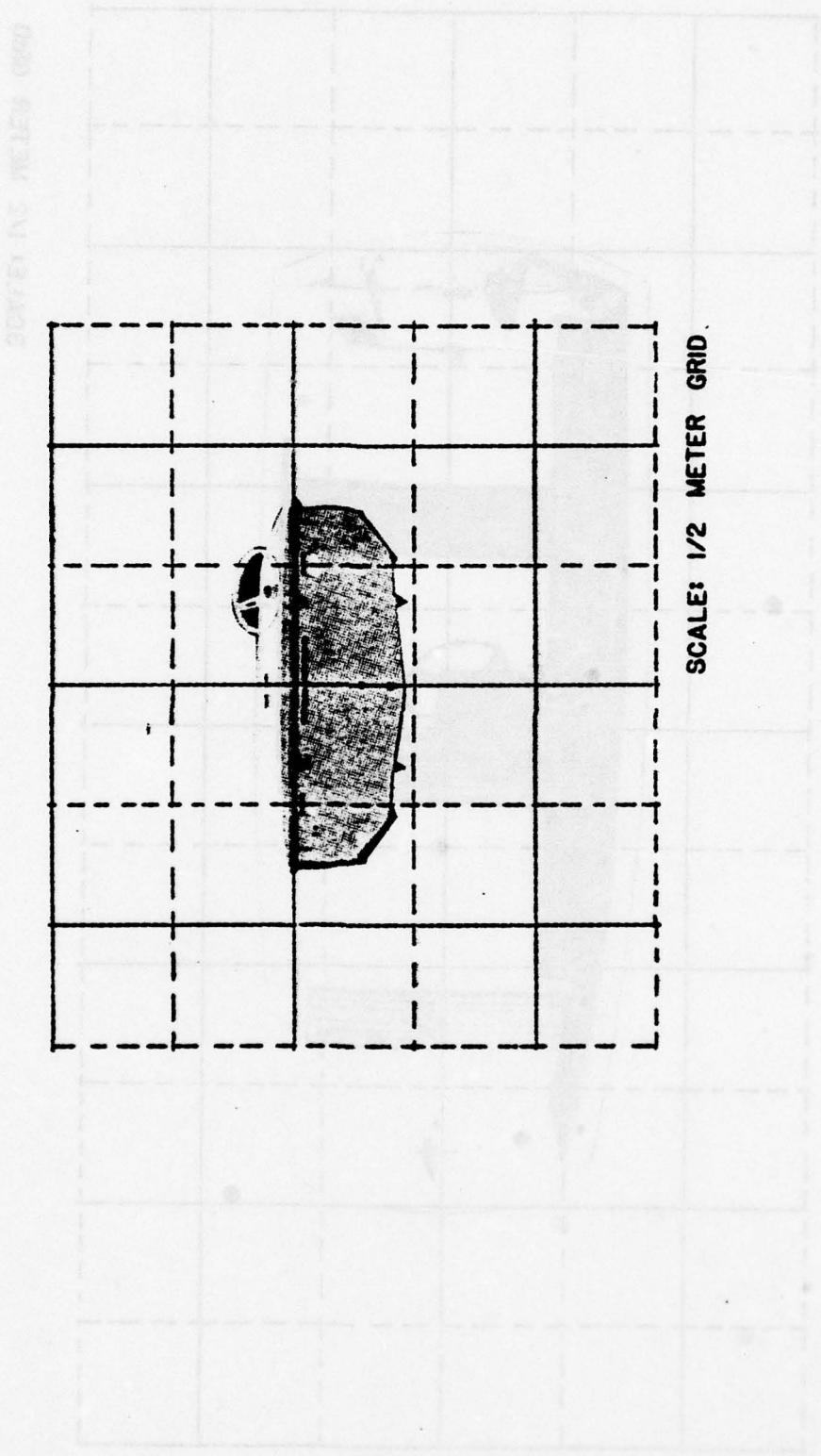


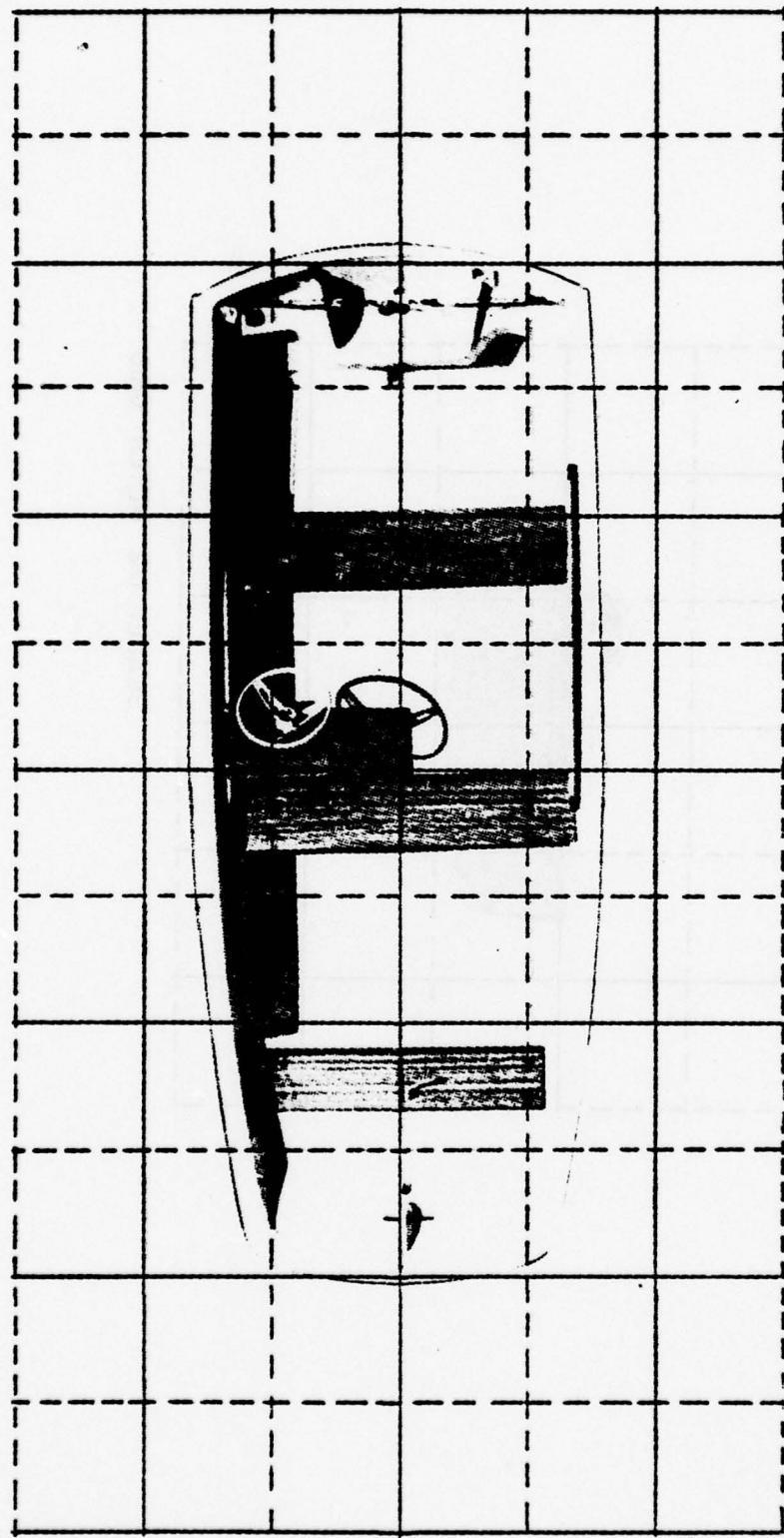


SCALE: 1/2 METER GRID

FIGURE 86 SIDE VIEW OF BOAT 77-04

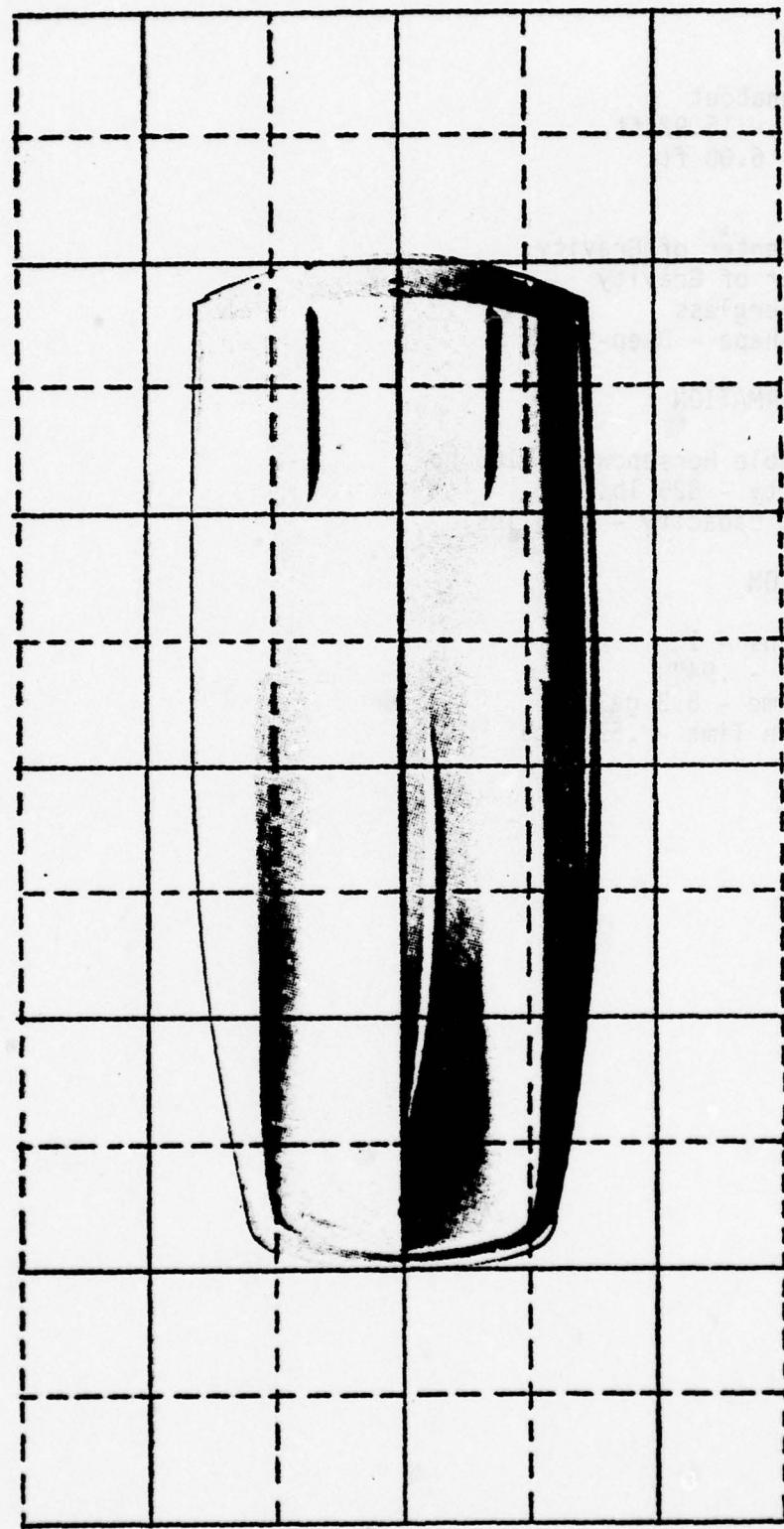
FIGURE 87 STERN VIEW OF BOAT 77-04





SCALE: 1/2 METER GRID

FIGURE 88 TOP VIEW OF BOAT
77-04



SCALE: 1/2 METER GRID

77-04

FIGURE 89 BOTTOM VIEW OF BOAT

R&DC BOAT NUMBER 77-05

GENERAL INFORMATION

Boat Type - Runabout
Length Overall - 15.92 ft.
Beam Overall - 6.08 ft.
Beam at Chine
Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Deep-Vee

CAPACITY PLATE INFORMATION

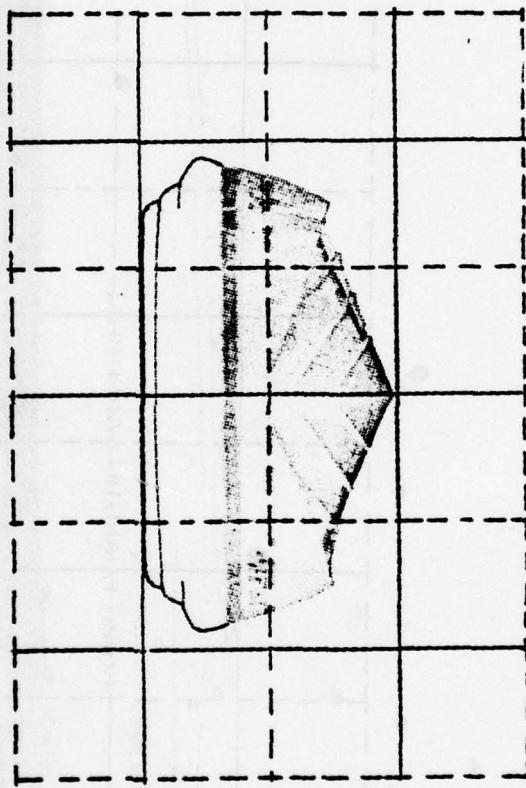
Maximum Allowable Horsepower - 105 hp
Persons Capacity - 825 lbs.
Maximum Weight Capacity - 1275 lbs.

MOTORWELL INFORMATION

Number of Drains - 1
Size of Drains - .94"
Motorwell Volume - 8.3 gals
Motorwell Drain Time - .59 secs

90. Bow
91. Side
92. Stern
93. Top
94. Bottom

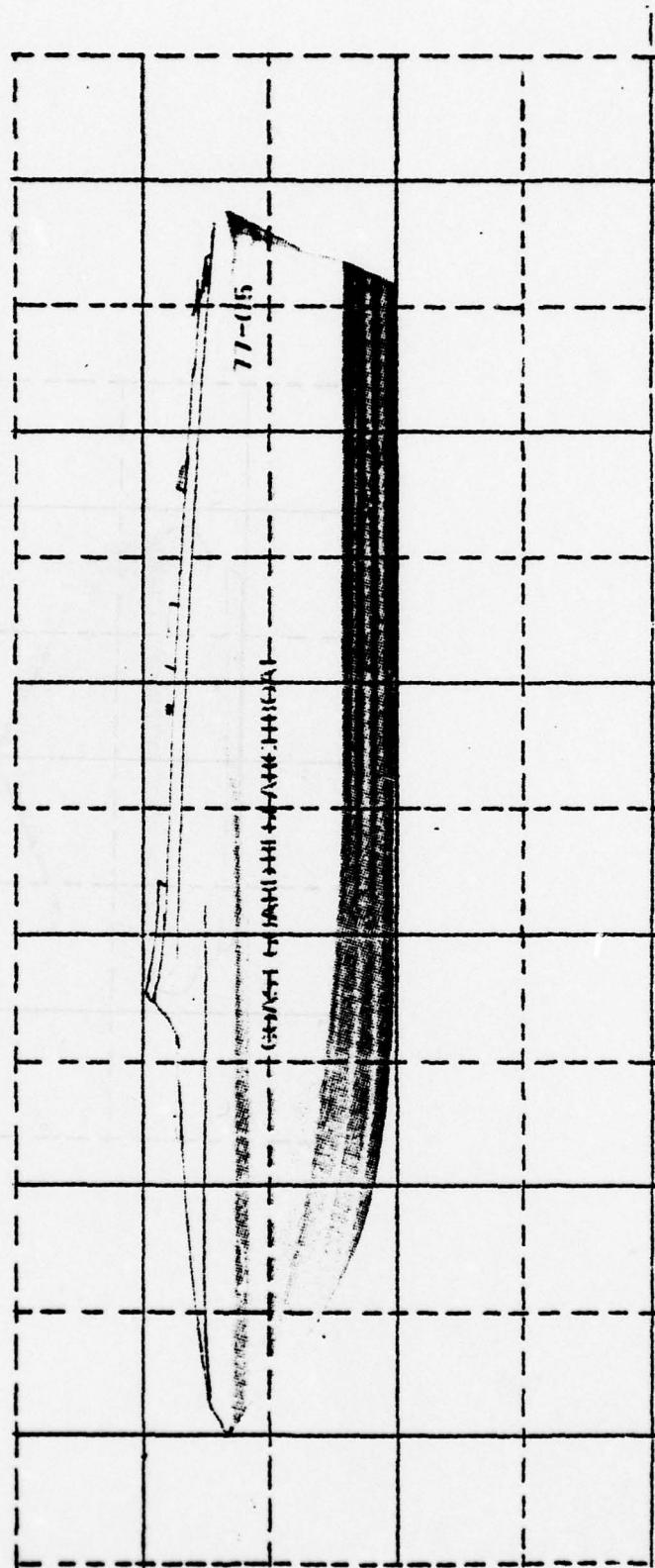
FIGURE 90 BOW VIEW OF BOAT 77-02
Scales: 1/2 METER GRID



SCALE: 1/2 METER GRID

FIGURE 90 BOW VIEW OF BOAT 77-05

FIGURE 91 SIDE VIEW OF BOAT 77-05

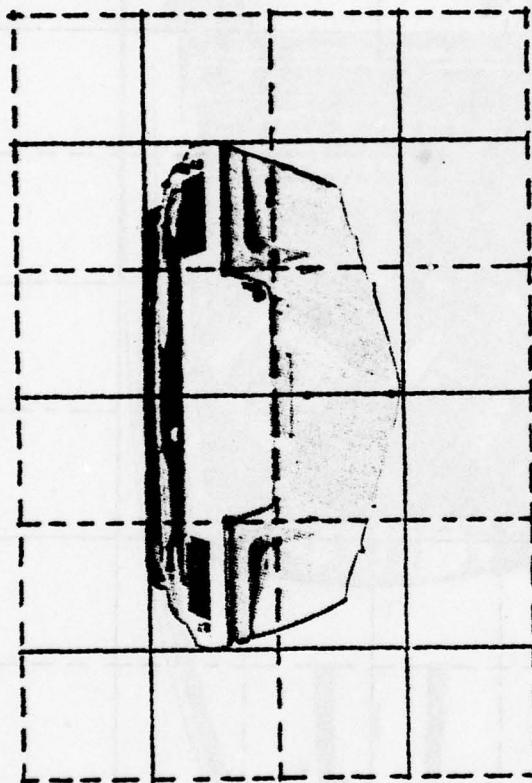


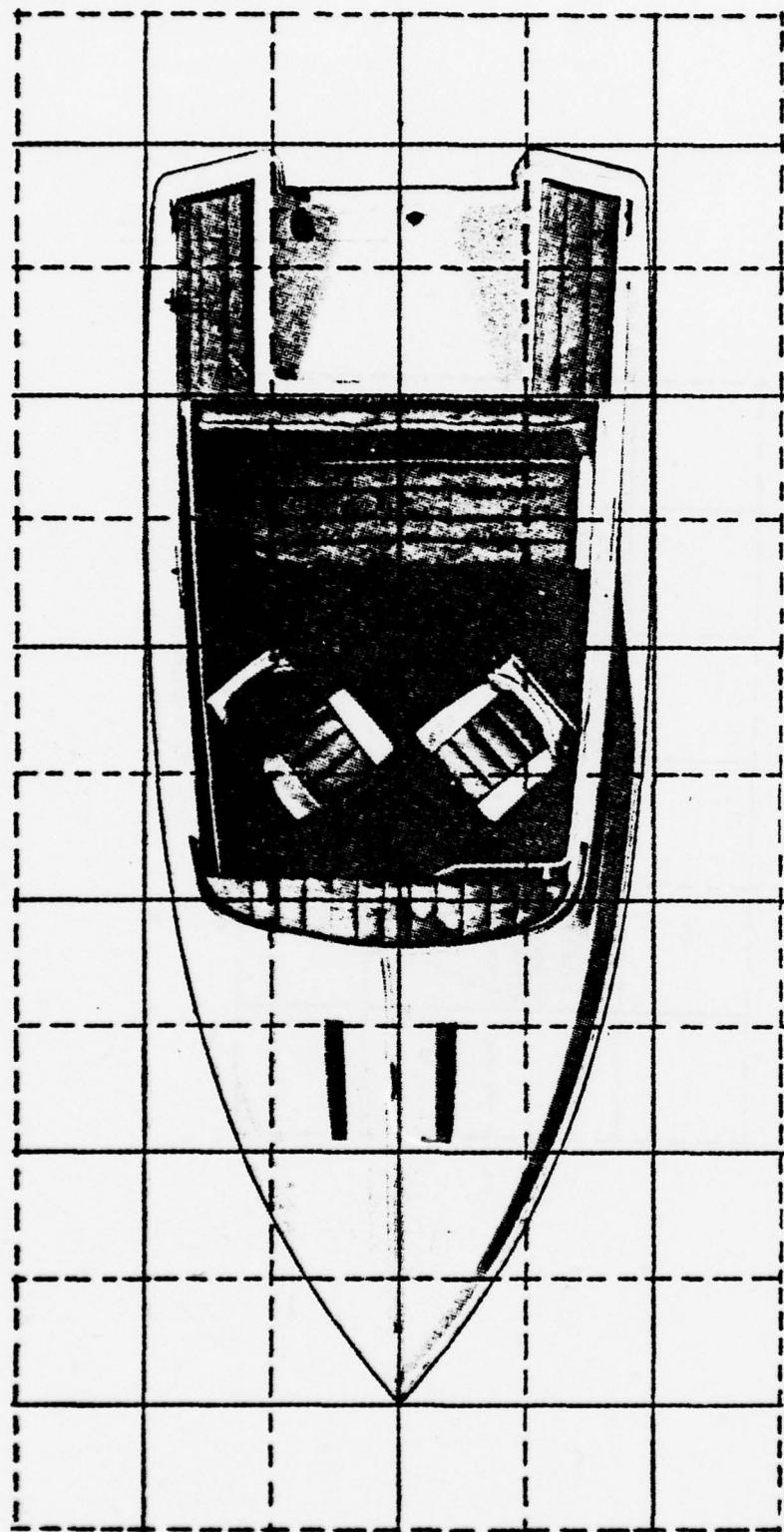
SCALE: 1/2 METER GRID

77-05

FIGURE 92 STERN VIEW OF BOAT

SCALE: 1/2 METER GRID





SCALE: 1/2 METER GRID

FIGURE 93 TOP VIEW OF BOAT 77-05



SCALE: 1/2 METER GRID

FIGURE 94 BOTTOM VIEW OF BOAT 77-05

R&DC BOAT NUMBER 77-06

GENERAL INFORMATION

Boat Type - Deck Boat
Length Overall - 16.11 ft.
Beam Overall - 6.62 ft.
Beam at Chine
Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

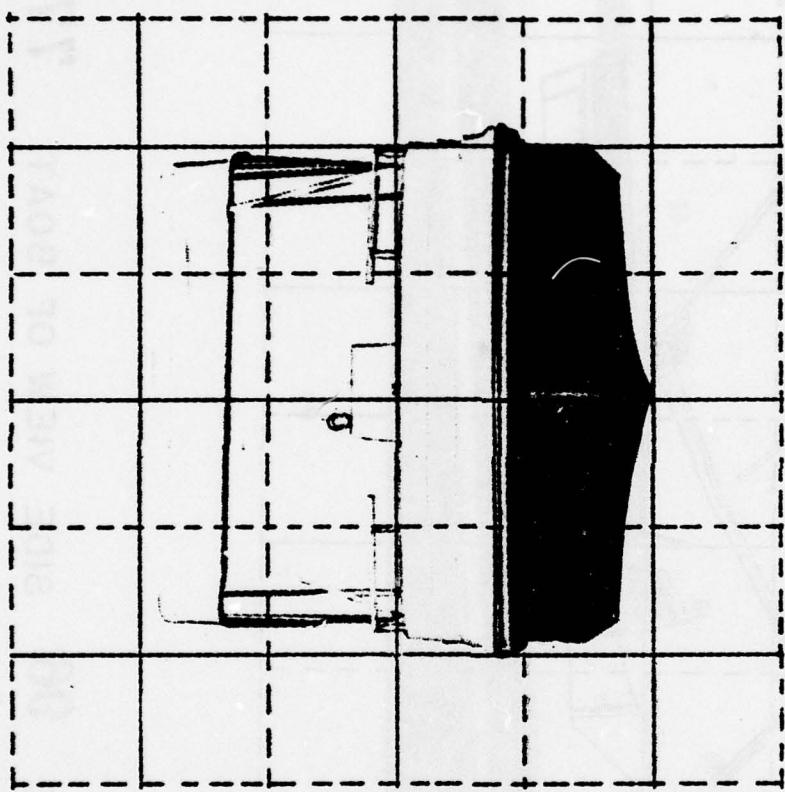
Maximum Allowable Horsepower - 135 hp
Persons Capacity - 1065 lbs.
Maximum Weight Capacity - 1636 lbs

MOTORWELL INFORMATION

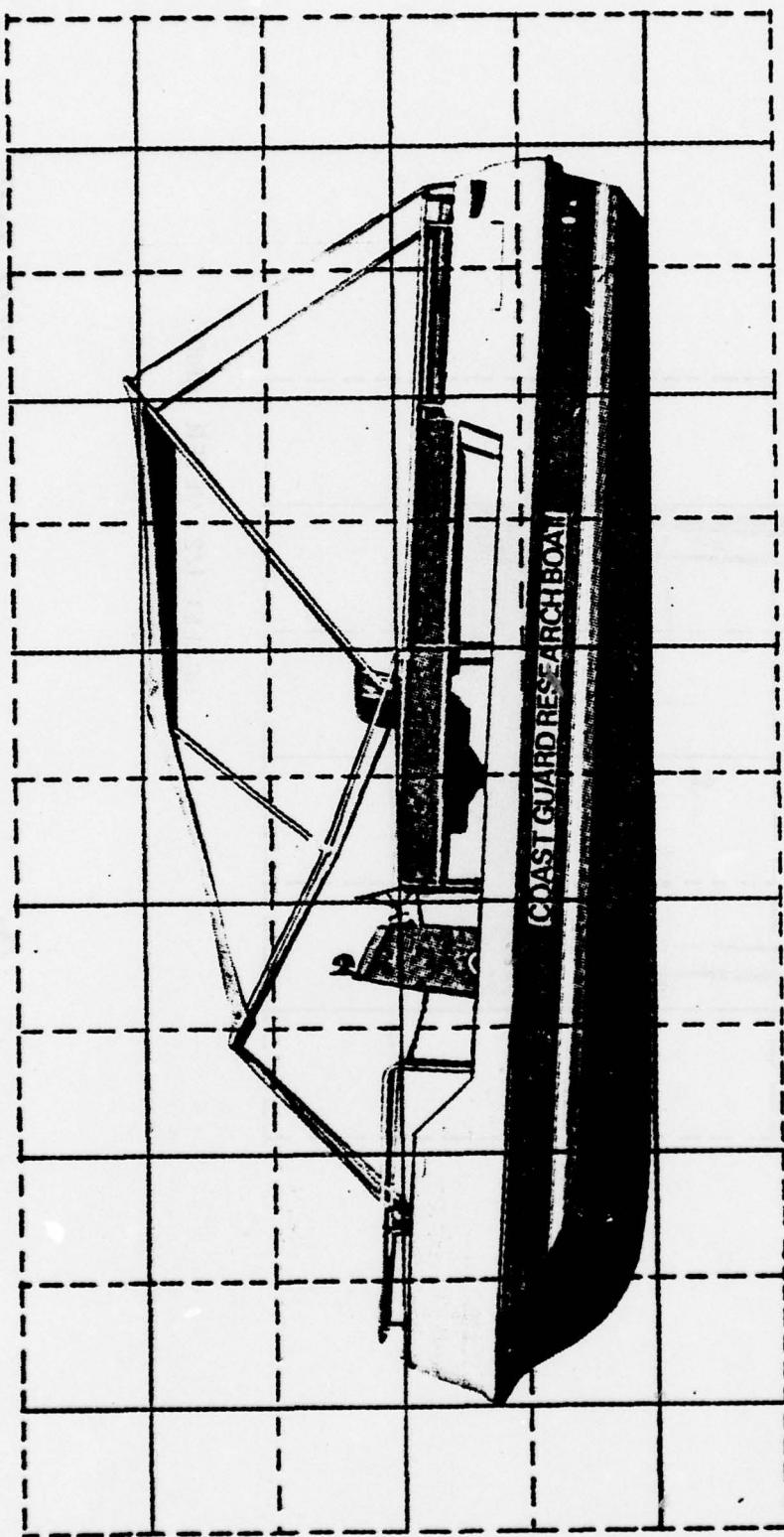
Number of Drains - 1
Size of Drains - .75"
Motorwell Volume - 18.5 gals.
Motorwell Drain Time - 5.45

- 95. Bow
- 96. Side
- 97. Stern
- 98. Top
- 99. Bottom

FIGURE 95 BOW VIEW OF BOAT 77-06



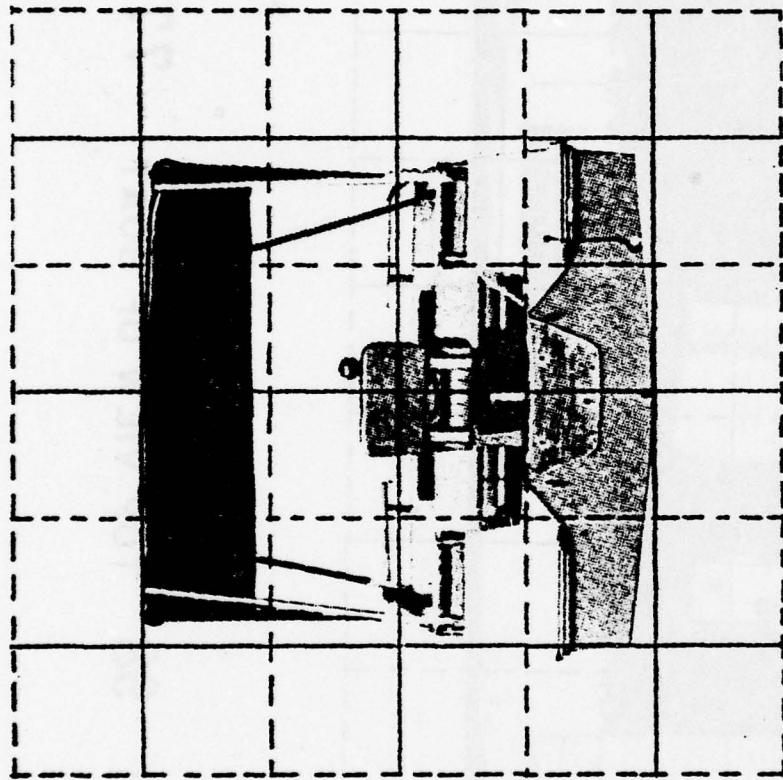
SCALE: 1/2 METER GRID



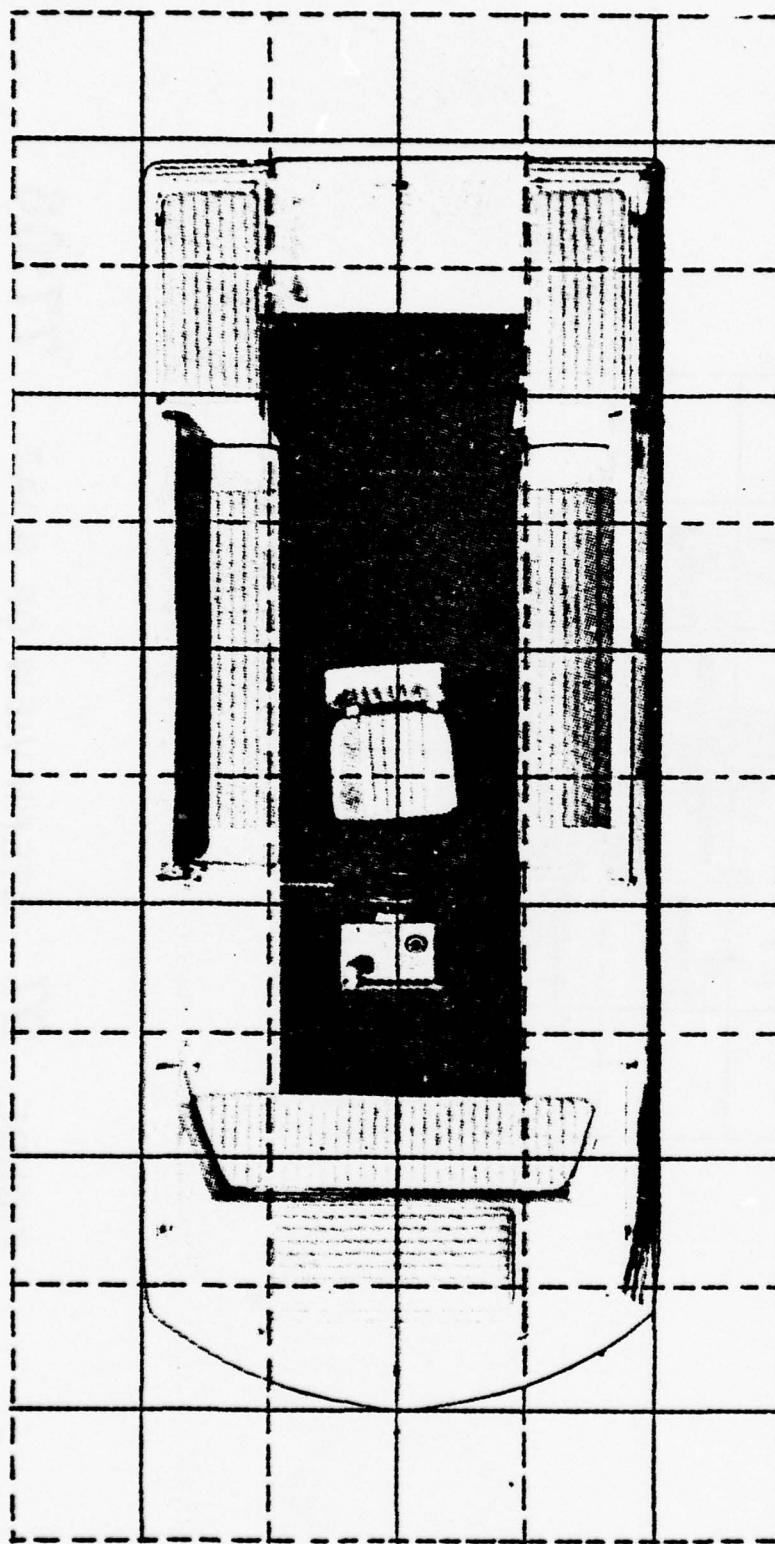
SCALE: 1/2 METER GRID

FIGURE 96 SIDE VIEW OF BOAT 77-06

FIGURE 97 STERN VIEW OF BOAT 77-06

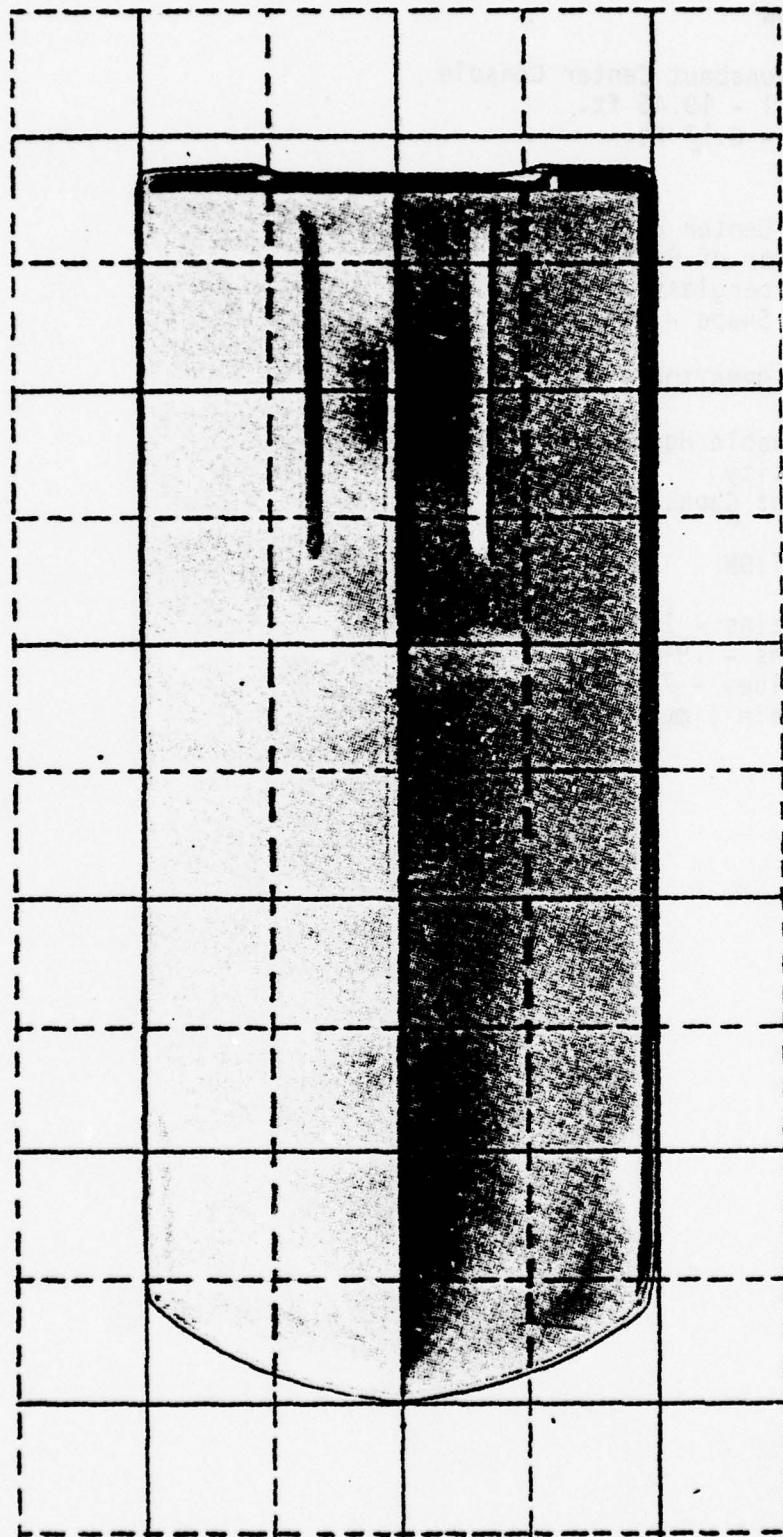


SCALE: 1/2 METER GRID



SCALE: 1/2 METER GRID

FIGURE 98 TOP VIEW OF BOAT 77-06



SCALE: 1/2 METER GRID

FIGURE 99 BOTTOM VIEW OF BOAT 77-06

R&DC BOAT NUMBER 77-07

GENERAL INFORMATION

Boat Type - Runabout Center Console
Length Overall - 19.45 ft.
Beam Overall - 8.17 ft.
Beam at Chine
Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Deep-Vee

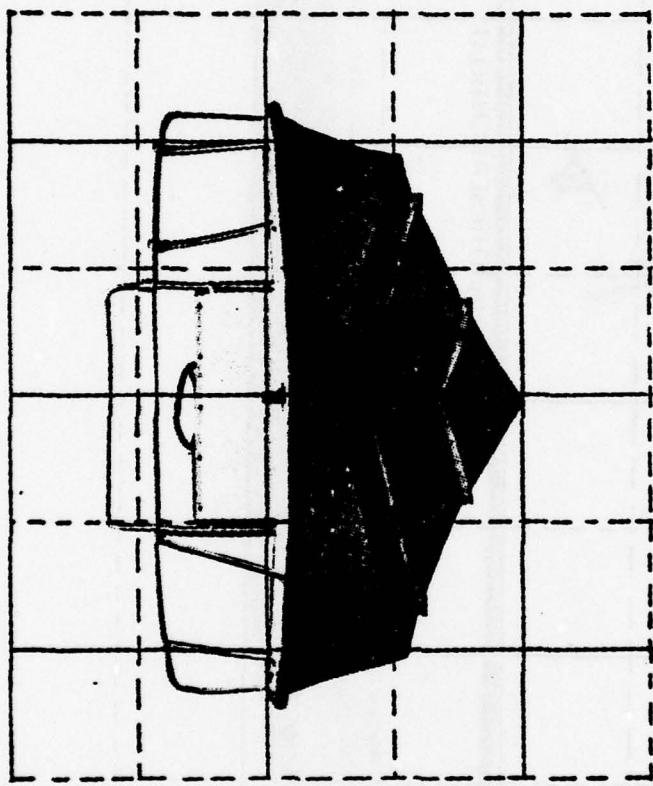
CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 150 hp
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

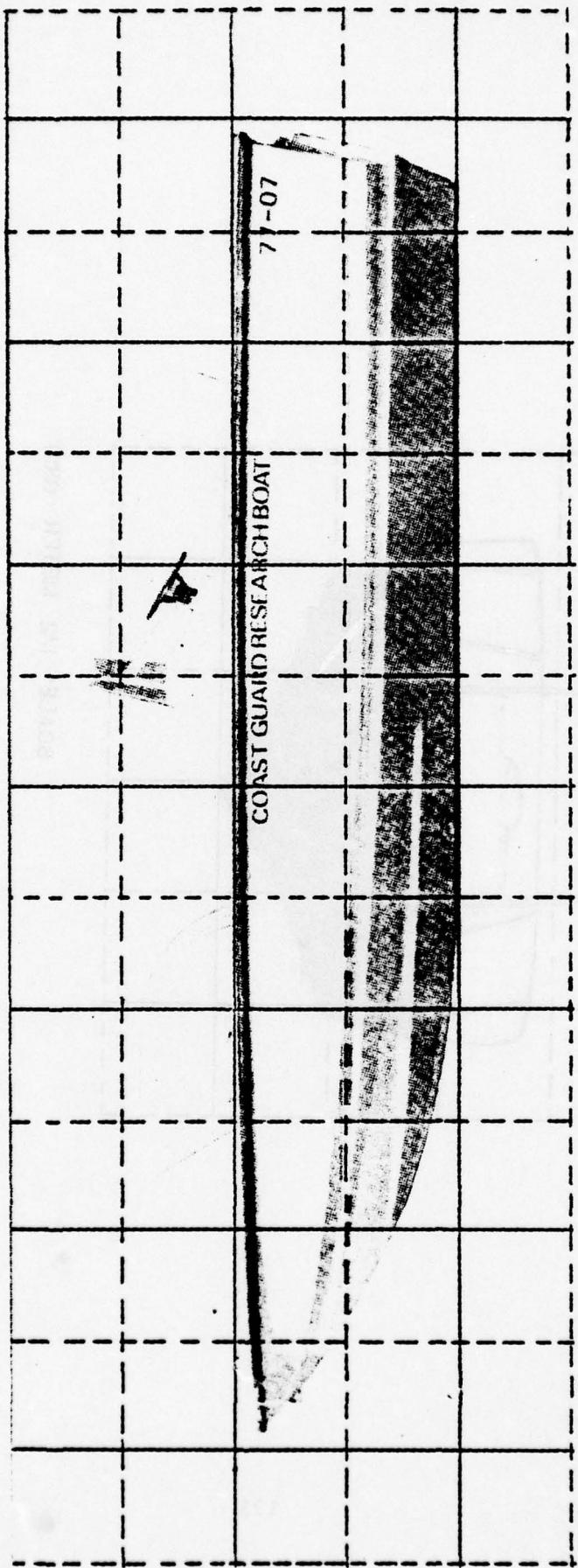
Number of Drains - 1
Size of Drains - .94"
Motorwell Volume - 7.9 gals
Motorwell Drain Time - 1:11

100. Bow
101. Side
102. Stern
103. Top
104. Bottom



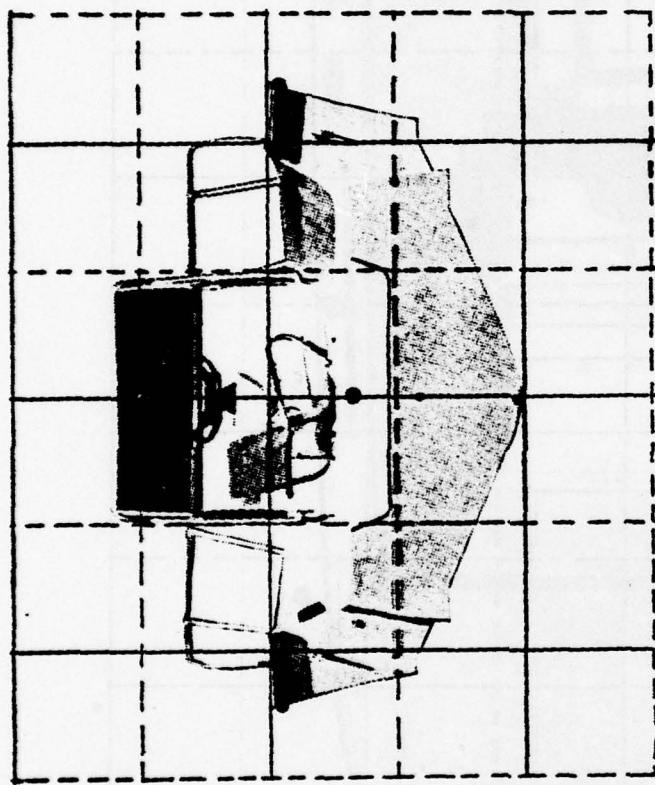
SCALE: 1/2 METER GRID

FIGURE 100 BOW VIEW OF BOAT 77-07



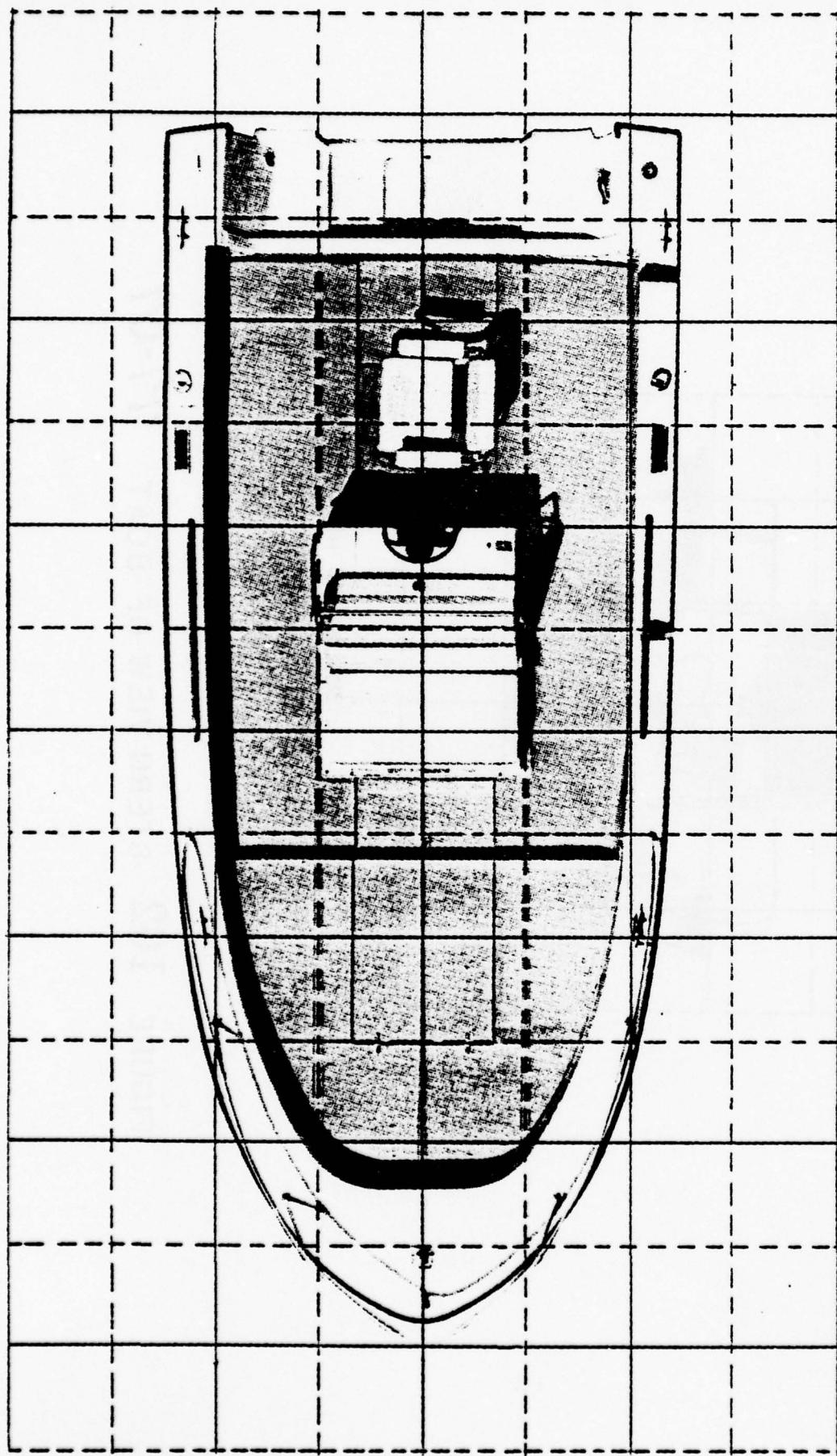
SCALE: 1/2 METER GRID

FIGURE 101 SIDE VIEW OF BOAT 77-07



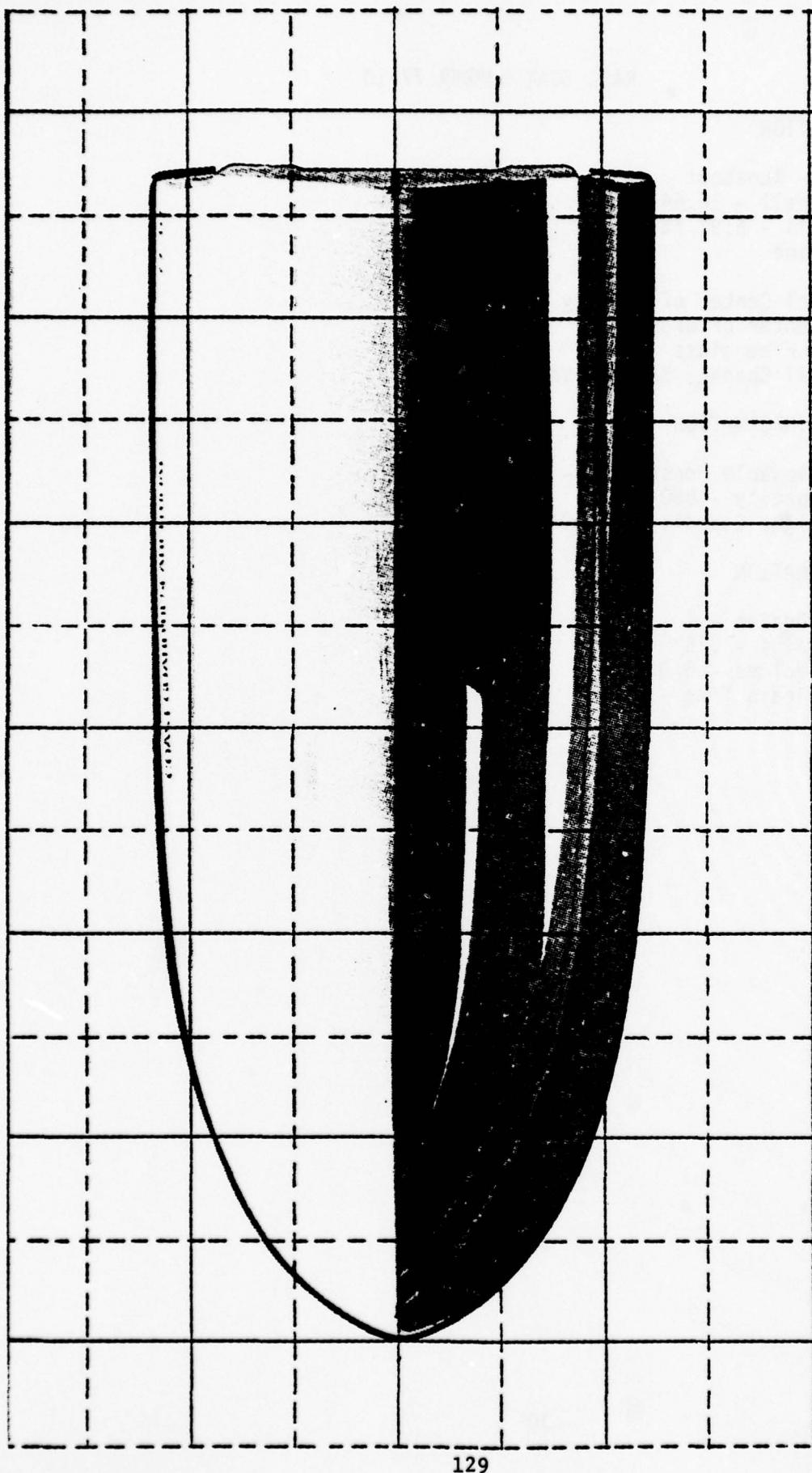
SCALE: 1/2 METER GRID

FIGURE 102 STERN VIEW OF BOAT 77-07



SCALE: 1/2 METER GRID

FIGURE 103 TOP VIEW OF BOAT 77-07



129

SCALE: 1/2 METER GRID

FIGURE 104 BOTTOM VIEW OF BOAT 77-07

R&DC BOAT NUMBER 77-10

GENERAL INFORMATION

Boat Type - Runabout
Length Overall - 16.64 ft.
Beam Overall - 6.92 ft.
Beam at Chine
Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Shallow Vee

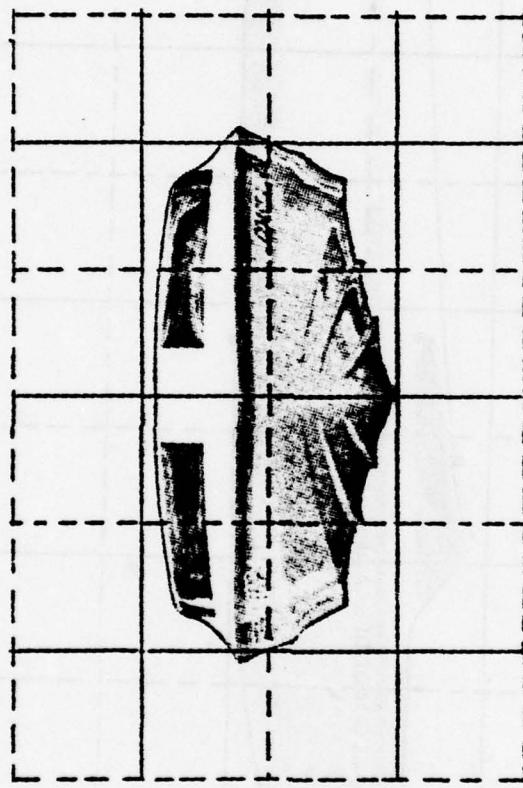
CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 125 hp
Persons Capacity - 860 lbs.
Maximum Weight Capacity - 1300 lbs.

MOTORWELL INFORMATION

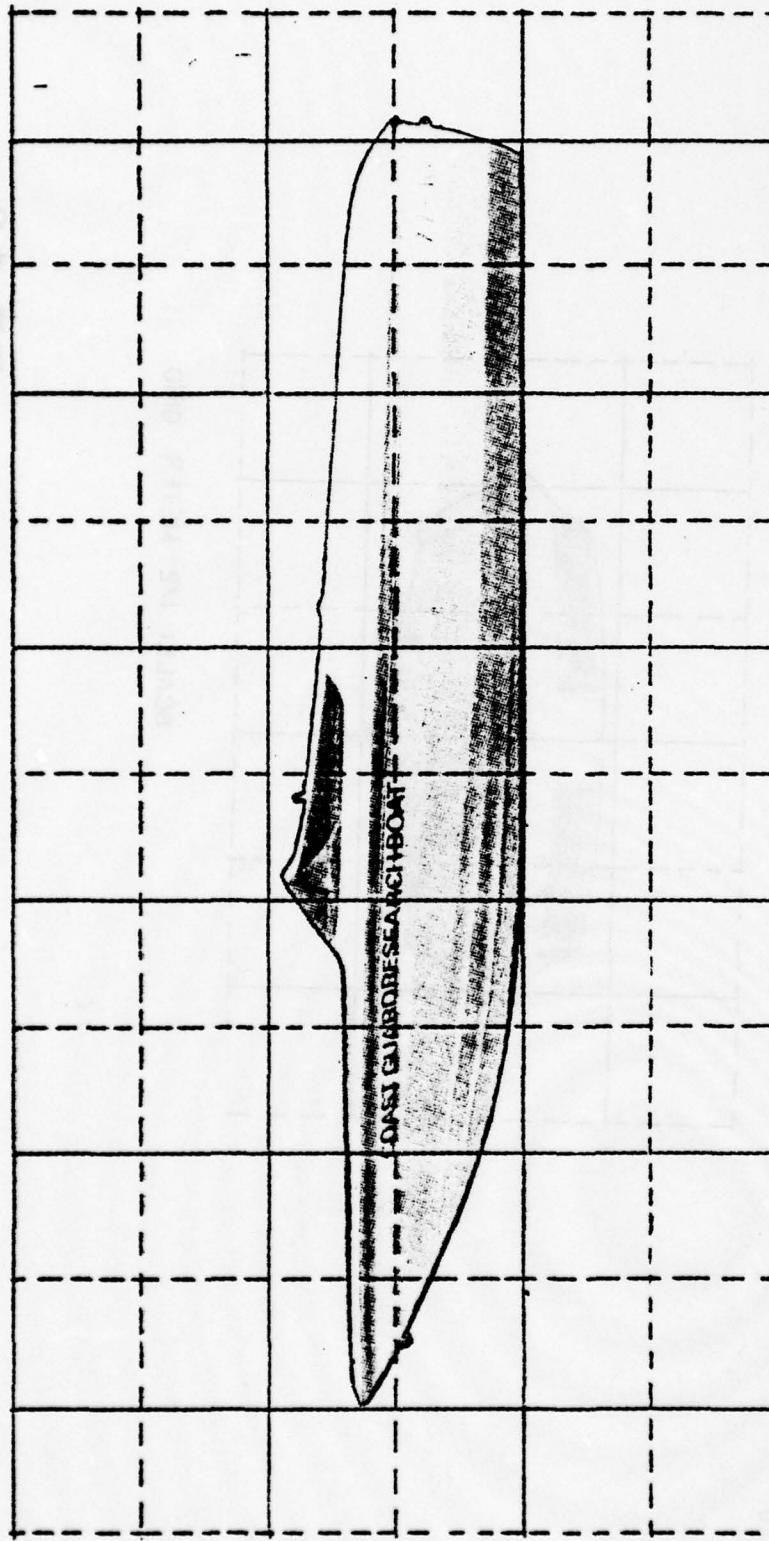
Number of Drains - 1
Size of Drains - .75"
Motorwell Volume - 6.0 gals
Motorwell Drain Time - 1:39

- 105. Bow
- 106. Side
- 107. Stern
- 108. Top
- 109. Bottom



SCALE: 1/2 METER GRID

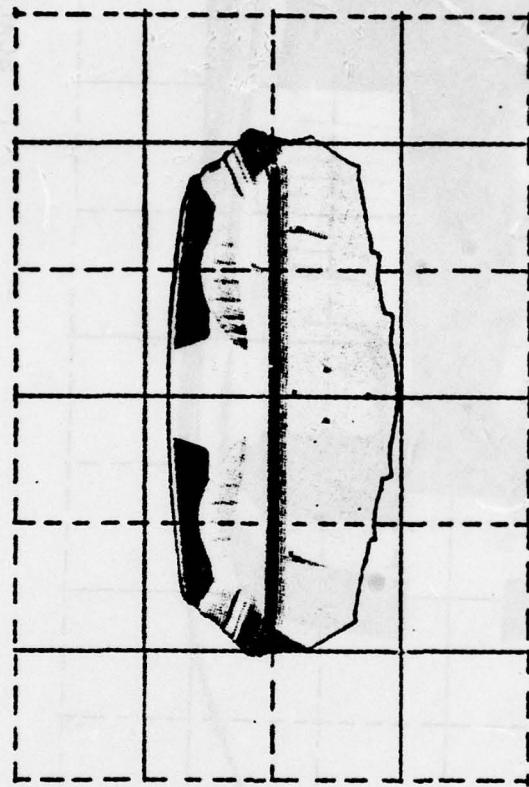
FIGURE 105 BOW VIEW OF BOAT 77-10



SCALE: 1/2 METER GRID

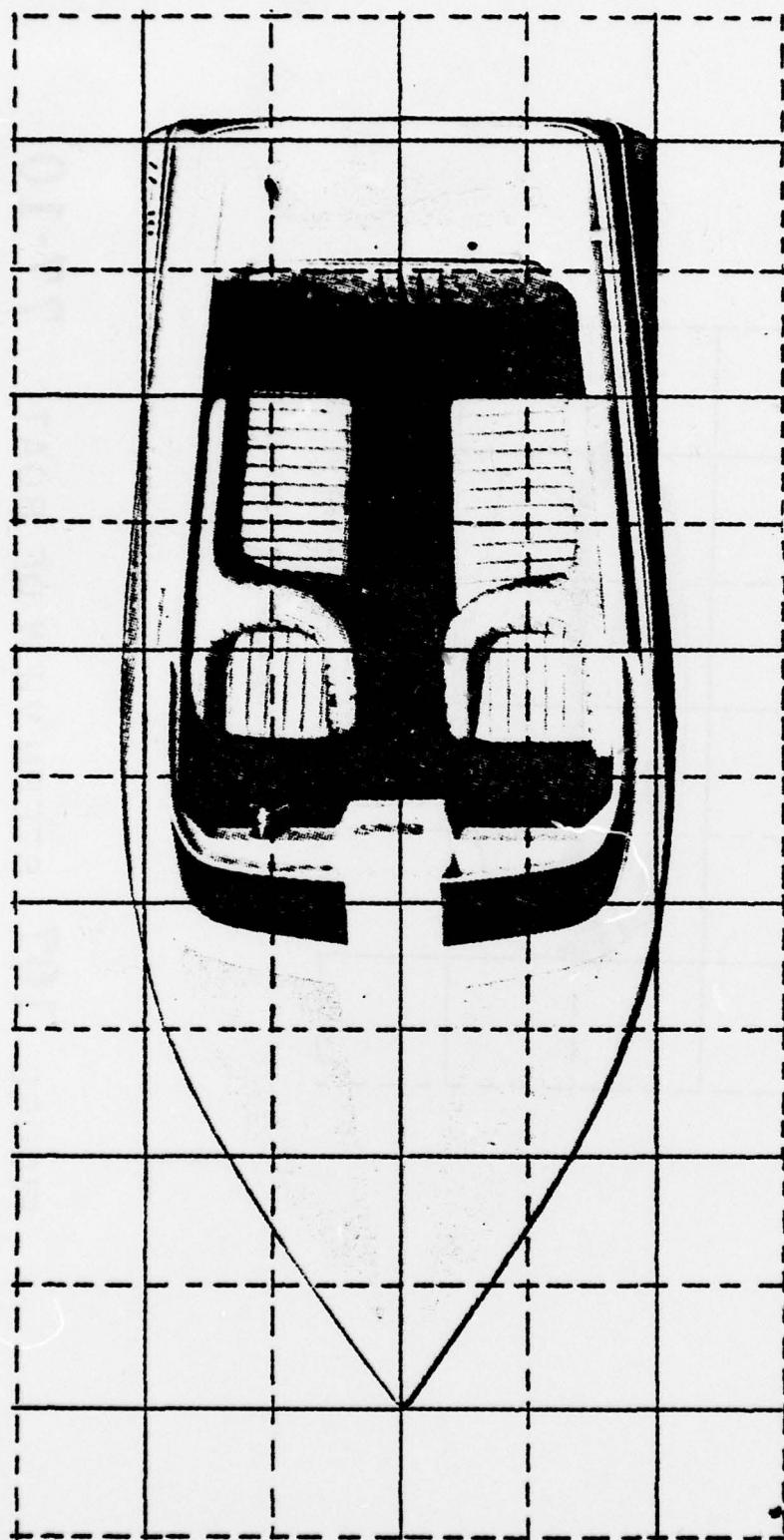
FIGURE 106 SIDE VIEW OF BOAT 77-10

LICENCE NO. 108 106 MEXICO BOAT



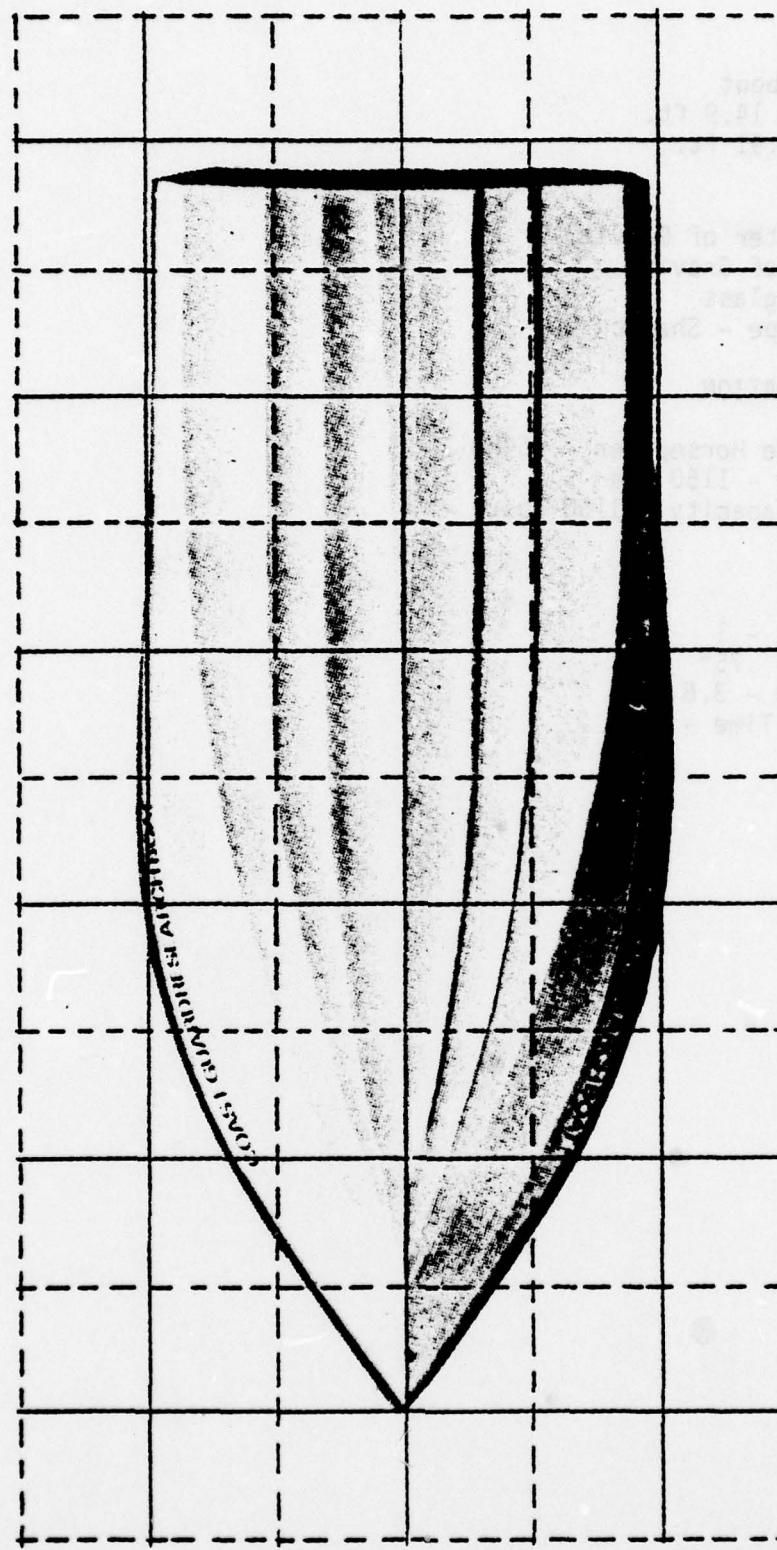
SCALE: 1/2 METER GRID

FIGURE 107 STERN VIEW OF BOAT 77-10



SCALE: 1/2 METER GRID

FIGURE 108 TOP VIEW OF BOAT 77-10



SCALE: 1/2 METER GRID

FIGURE 109 BOTTOM VIEW OF BOAT
77-10

R&DC BOAT NUMBER 77-11

GENERAL INFORMATION

Boat Type - Runabout
Length Overall - 14.9 ft.
Beam Overall - 5.91 ft.
Beam at Chine
Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Shallow Vee

CAPACITY PLATE INFORMATION

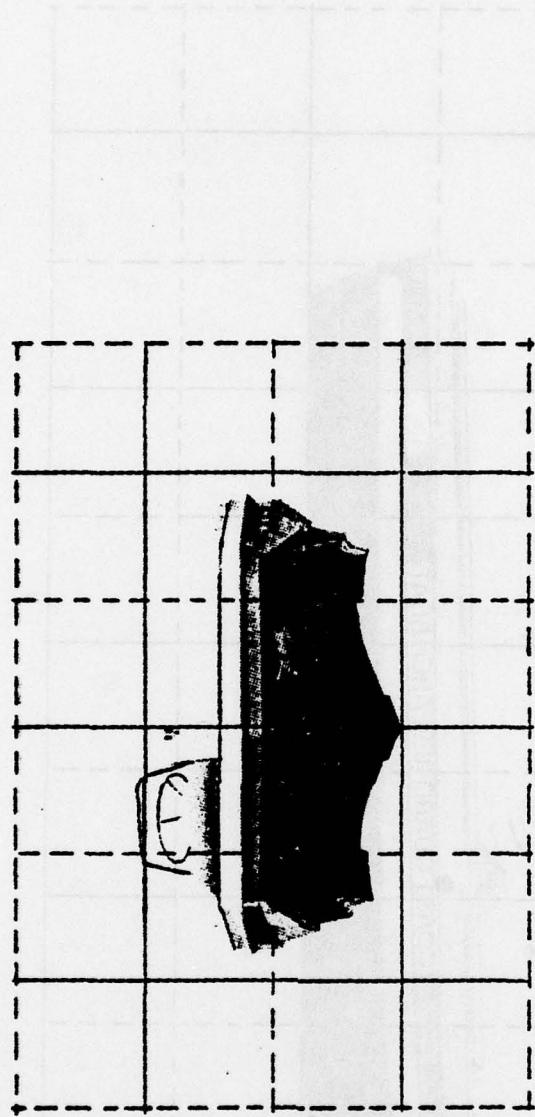
Maximum Allowable Horsepower - 85 hp
Persons Capacity - 1150 lbs
Maximum Weight Capacity - 1150 lbs.

MOTORWELL INFORMATION

Number of Drains - 1
Size of Drains - .75"
Motorwell Volume - 3.6 gals
Motorwell Drain Time - 1:05

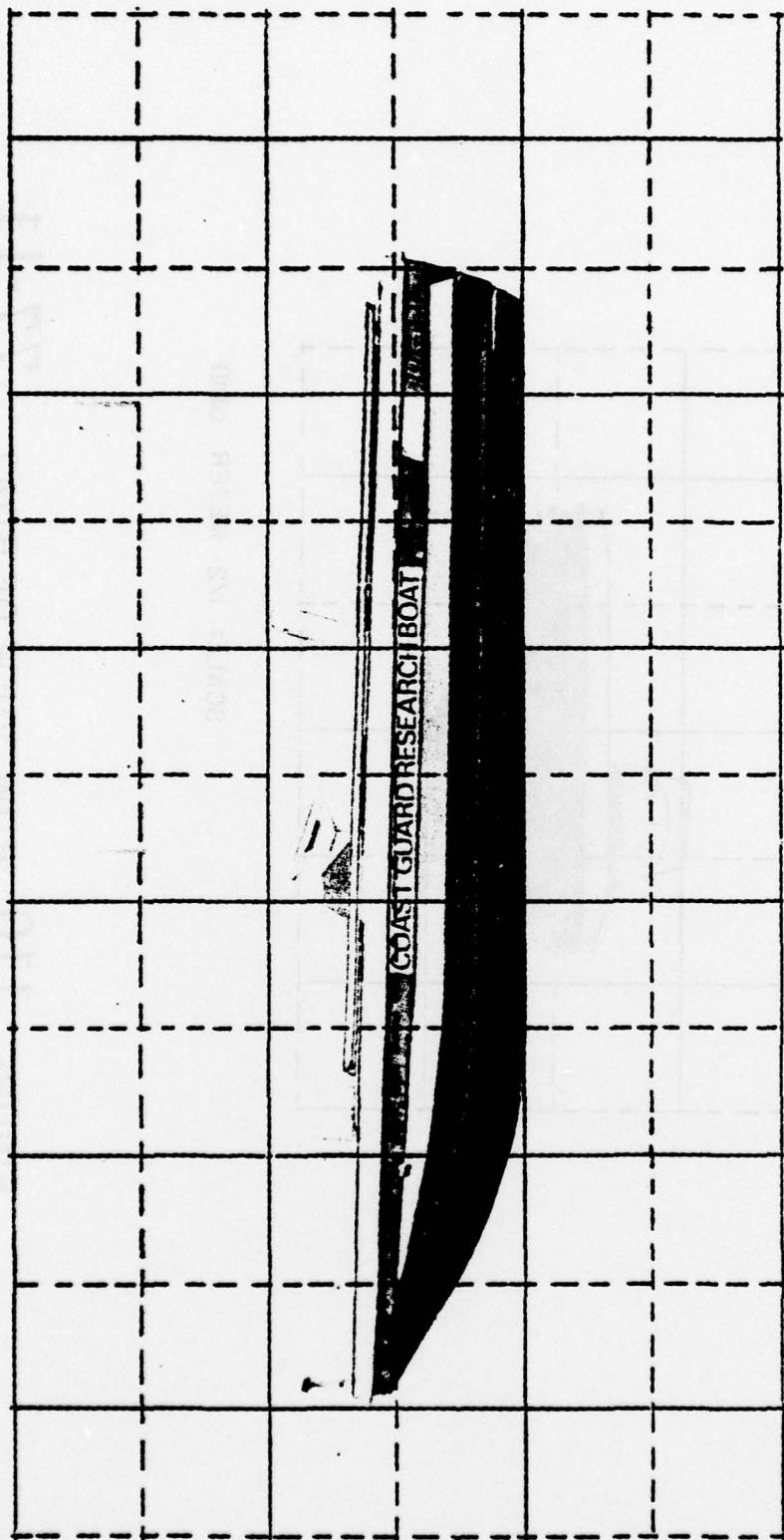
110. Bow
111. Side
112. Stern
113. Top
114. Bottom

FIGURE 110 BOW VIEW OF BOAT 77-11



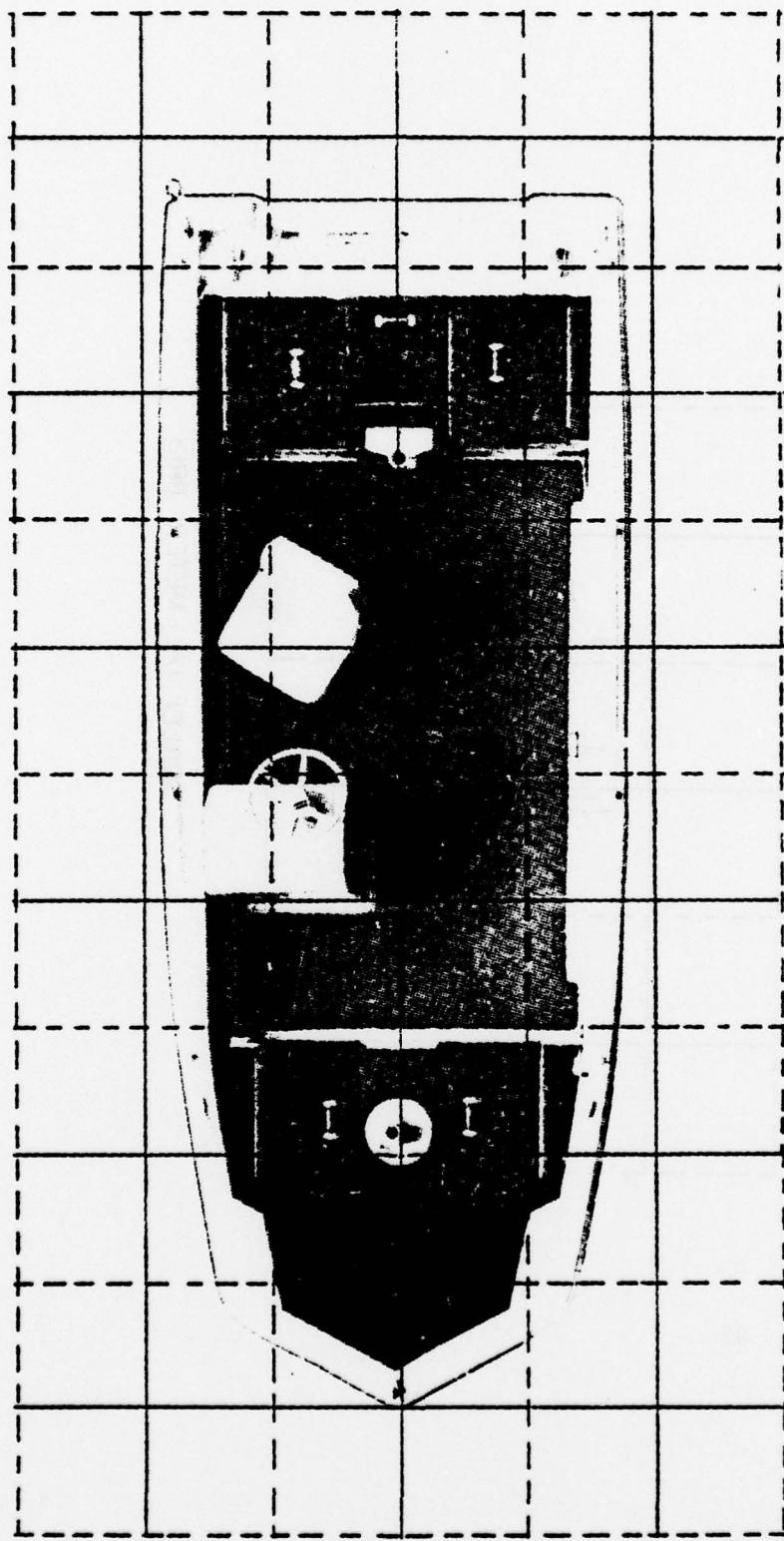
SCALE: 1/2 METER GRID

FIGURE 110 BOW VIEW OF BOAT 77-11



SCALE: 1/2 METER GRID

FIGURE 111 SIDE VIEW OF BOAT 77-11

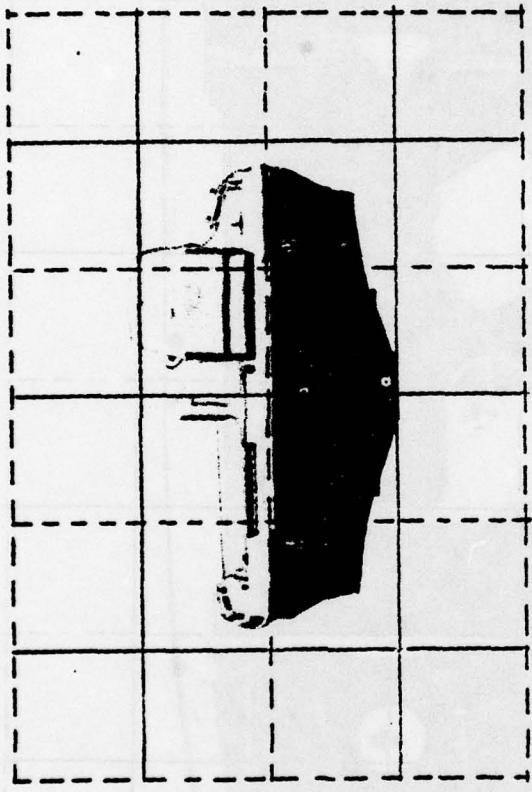


SCALE: 1/2 METER GRID

FIGURE 112 TOP VIEW OF BOAT 77-11

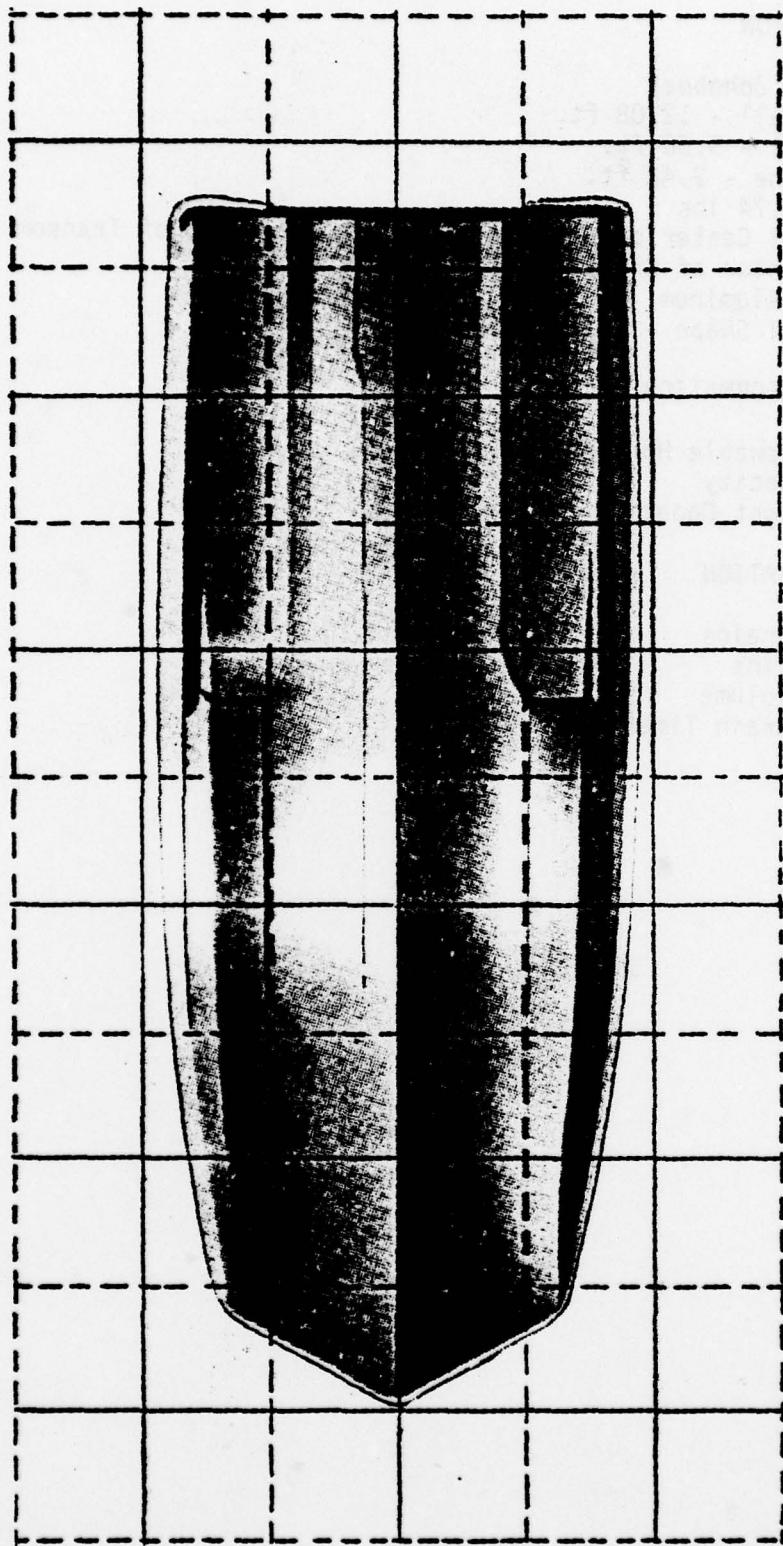
UNIQUE TYPING LOG AREA OF BOAT

SHOWING REVENUE GRID



SCALE: 1/2 METER GRID

FIGURE 113 STERN VIEW OF BOAT 77-11



SCALE: 1/2 METER GRID

FIGURE 114 BOTTOM VIEW OF BOAT 77-11

R&DC BOAT NUMBERS 78-02

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 12.08 ft.
Beam Overall - 3.58 ft.
Beam at Chine - 2.42 ft.
Weight - 82.74 lbs
Longitudinal Center of Gravity - 5.58 ft. from Top of Transom
Vertical Center of Gravity - 6.75 Inches from Deck
Material - Aluminum
General Hull Shape - Flat-Bottom

CAPCITY PLATE INFORMATION

Maximum Allowable Horsepower
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

R&DC BOAT NUMBERS 78-03

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 12.01 ft.
Beam Overall - 3.62 ft.
Beam at Chine - 2.42 ft.
Weight - 159.57 lbs.
Longitudinal Center of Gravity - 5.42 ft. from Top of Transom
Vertical Center of Gravity - 5.56 Inches from Deck
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

R&DC BOAT NUMBERS 78-04

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 12.04 ft.
Beam Overall - 4.15 ft.
Beam at Chine - 3.92 ft.
Weight - 122.34 lbs.
Longitudinal Center of Gravity - 5.42 from Top of Transom
Vertical Center of Gravity - 5.75 Inches from Deck
Material - Aluminum
General Hull Shape - Flat-Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

R&DC BOAT NUMBERS 78-05

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 12.02 ft.
Beam Overall - 4.60 ft.
Beam at Chine - 3.42 ft.
Weight - 83.73 lbs.
Longitudinal Center of Gravity - 5.99 ft. from Top of Transom
Vertical Center of Gravity - 6.25 Inches from Deck
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

R&DC BOAT NUMBERS 78-06

GENERAL INFORMATION

Boat Type - Johnboat

Length Overall - 12.02 ft.

Beam Overall - 4.75 ft.

Beam at Chine - 3.42 ft.

Weight - 161.91 lbs.

Longitudinal Center of Gravity - 5.71 ft. from Top of Transom

Vertical Center of Gravity - 5.00 Inches from Deck

Material - Aluminum

General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower

Persons Capacity

Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains

Size of Drains

Motorwell Volume

Motorwell Drain Time